

1/53

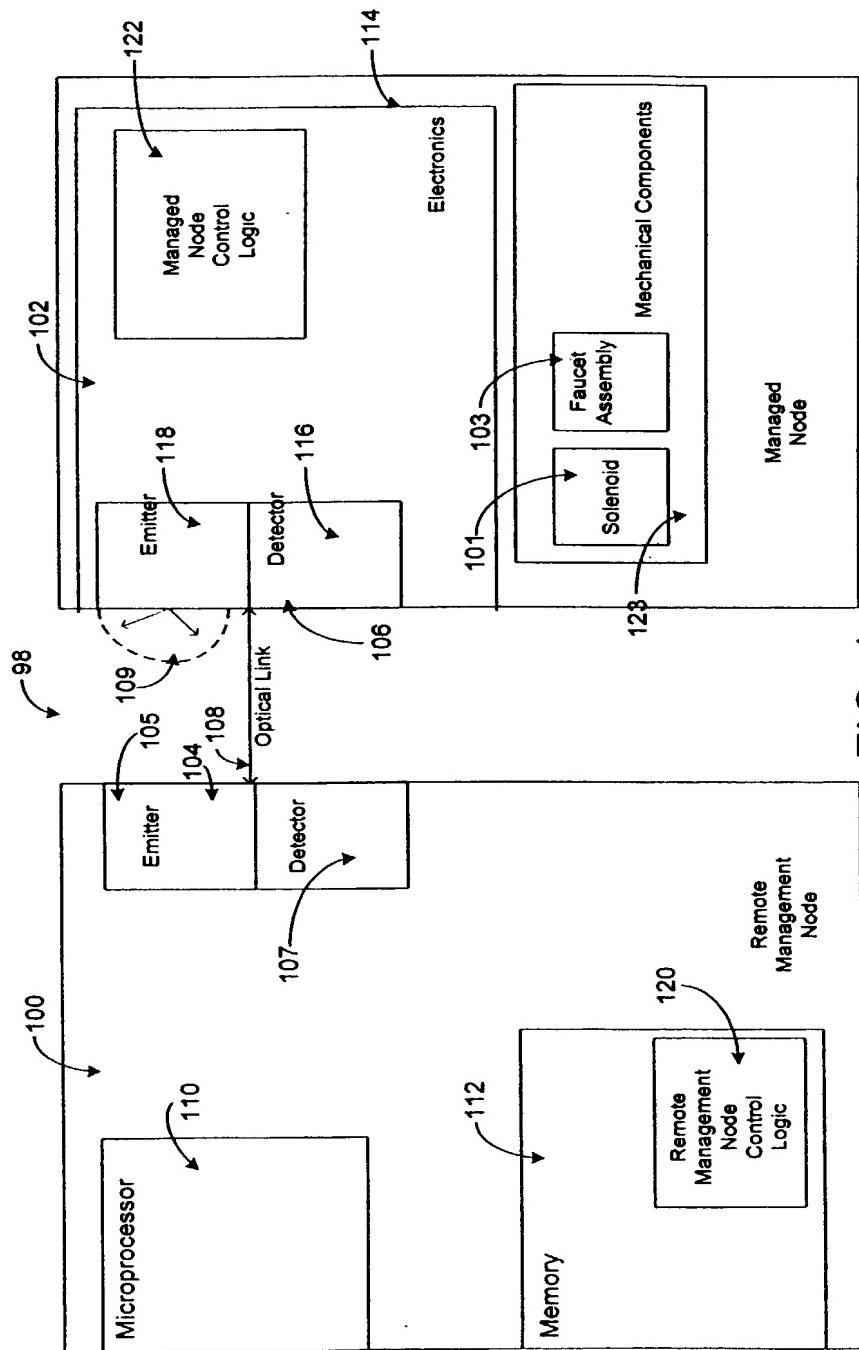


FIG. 1

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Event Loop

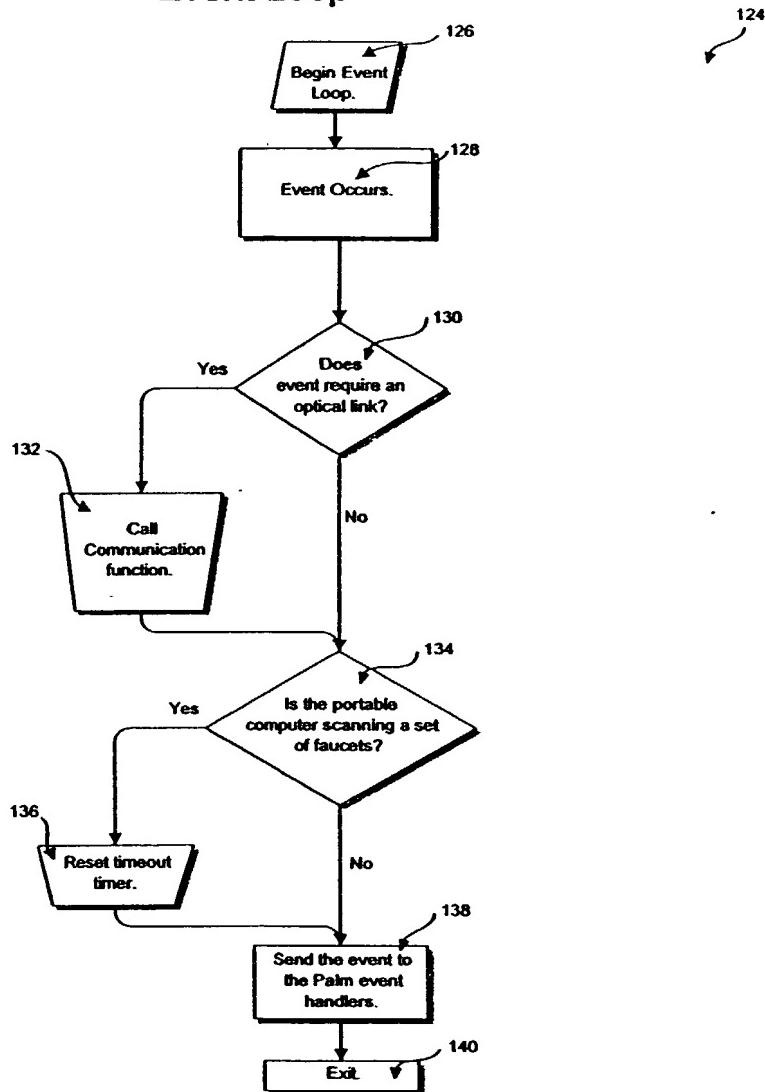


Fig. 2

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Communication Function

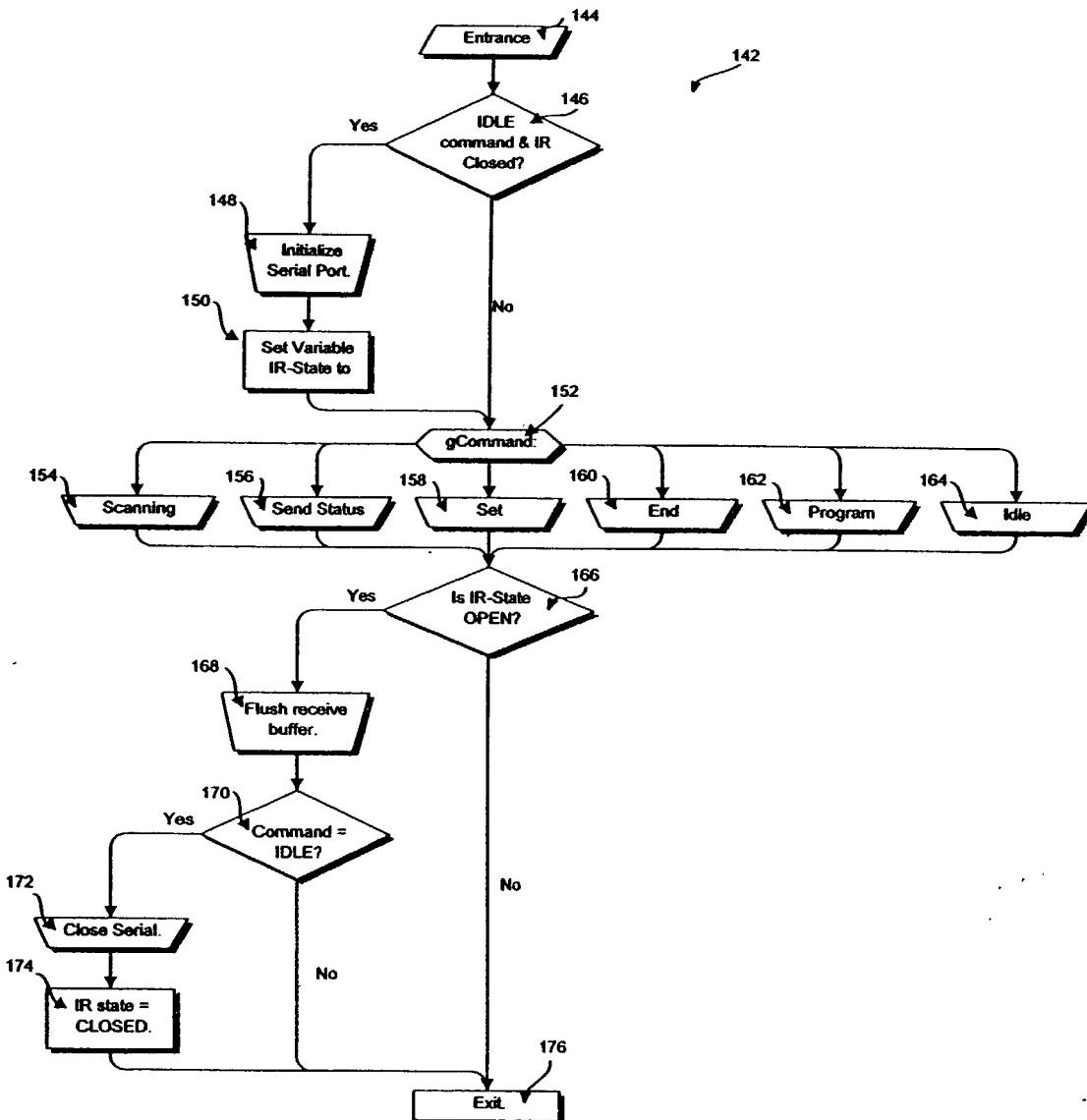


Fig. 3

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Send Status Function

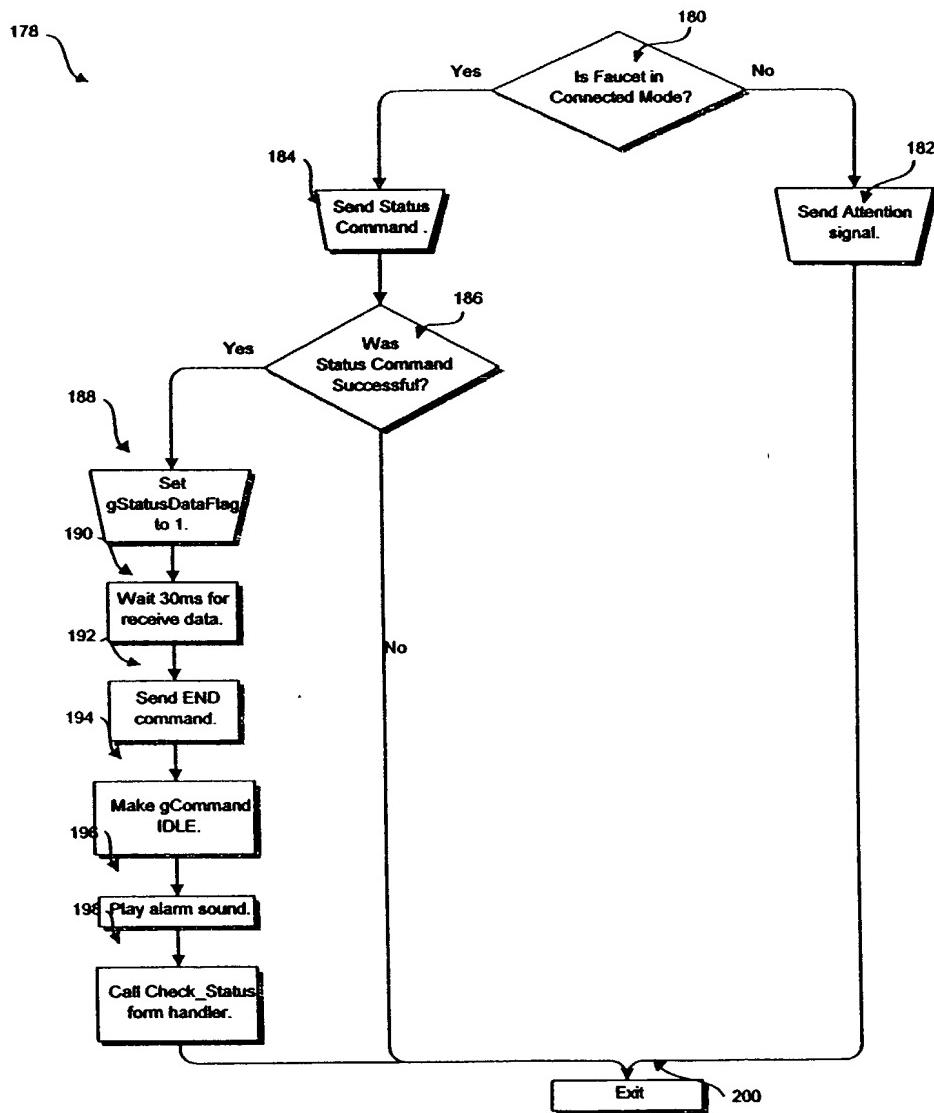


Fig. 4

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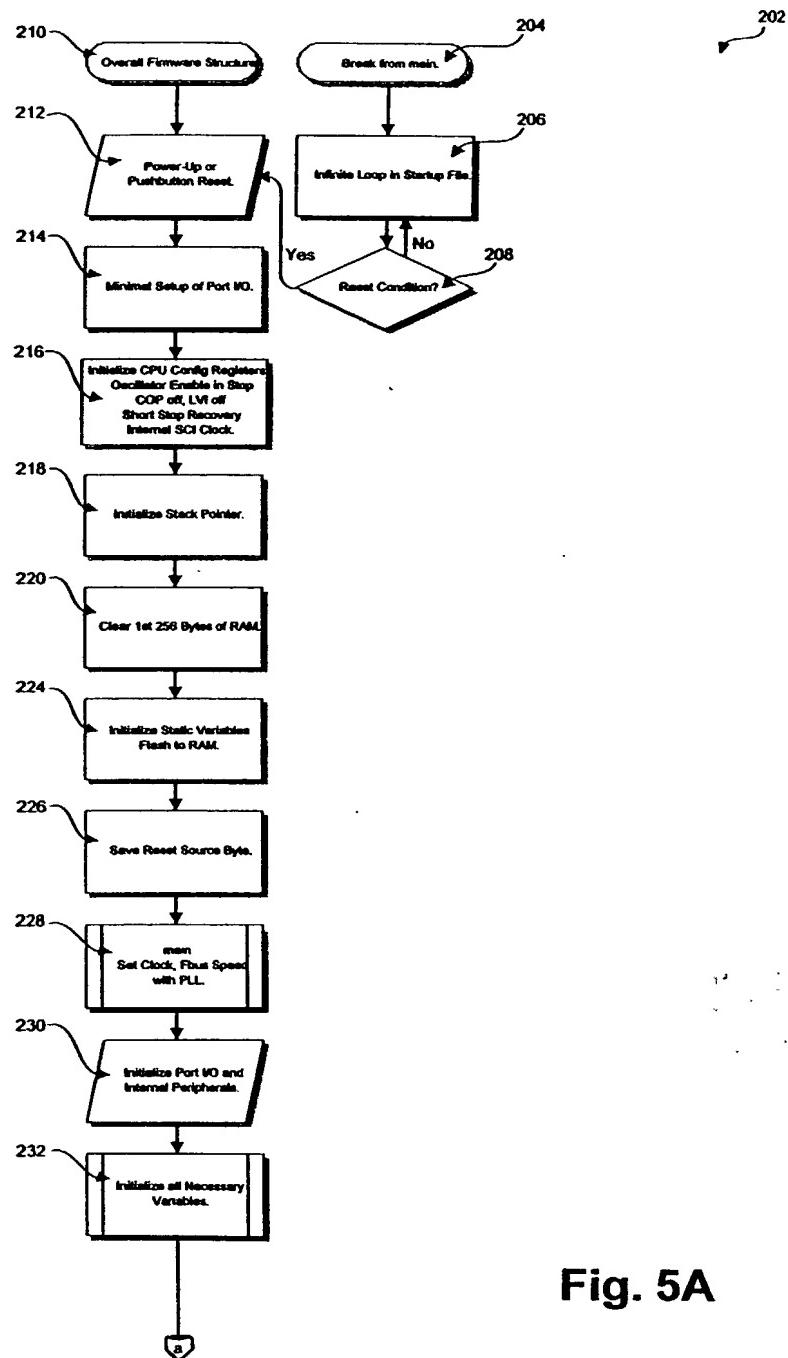
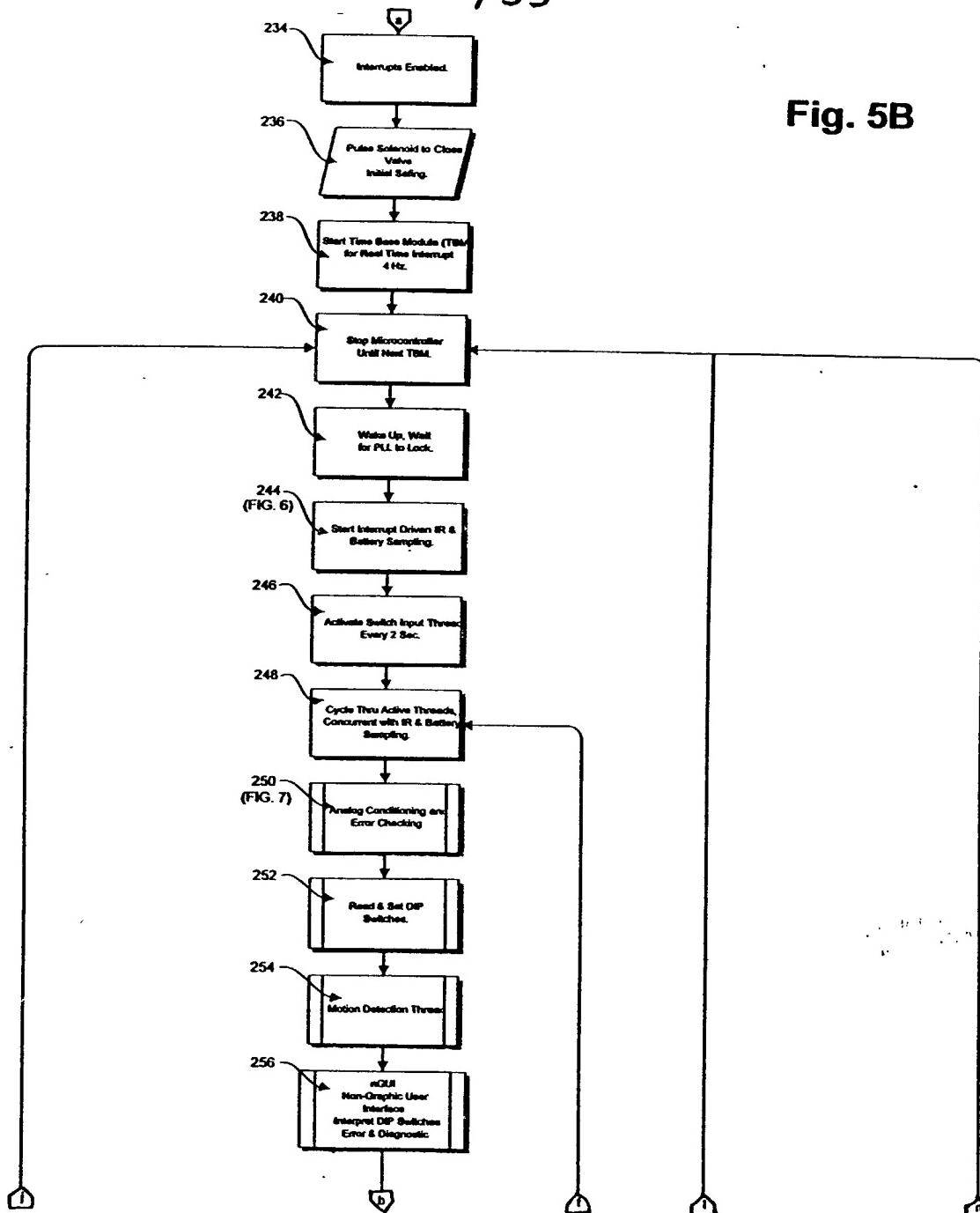


Fig. 5A

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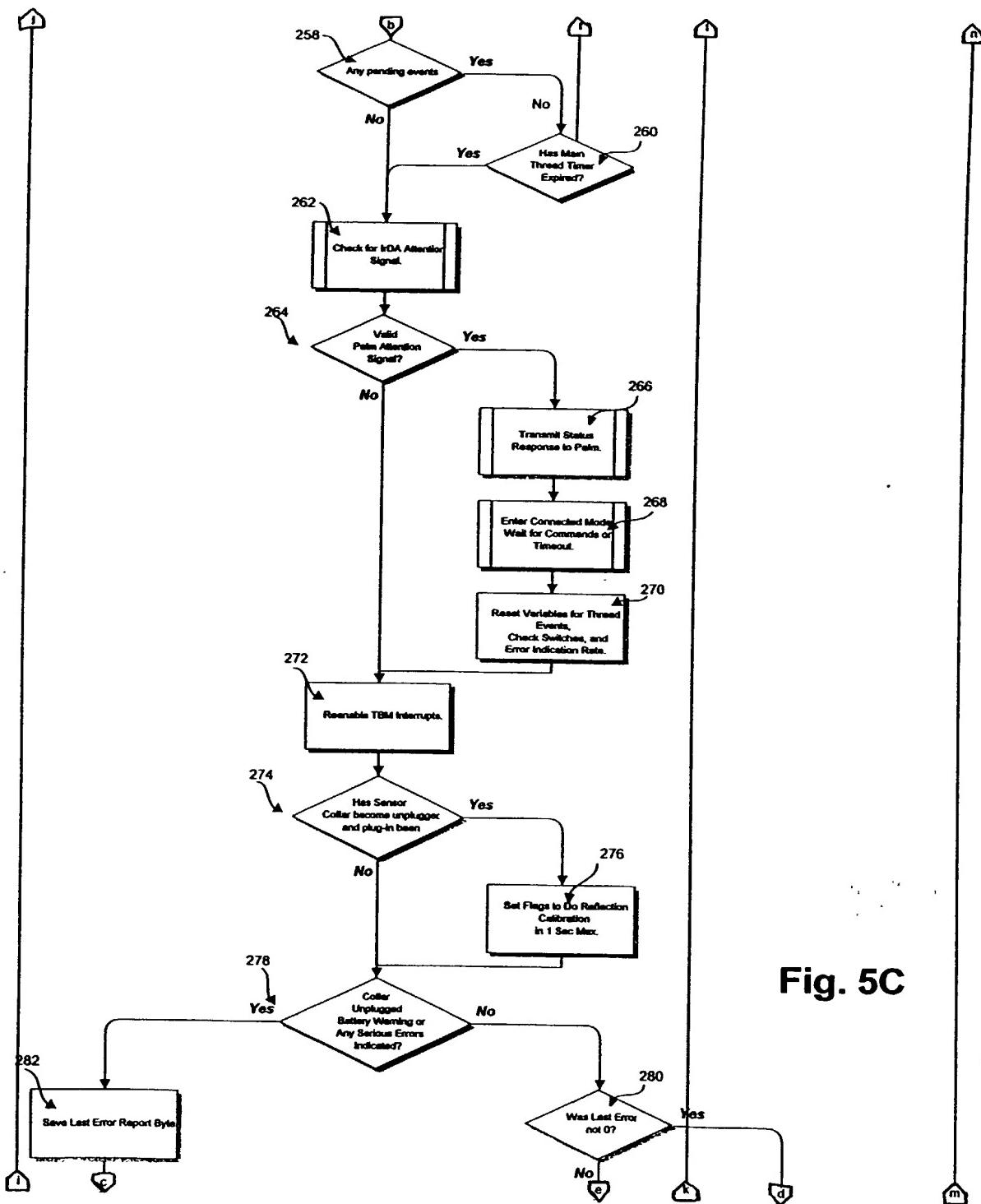


Fig. 5C

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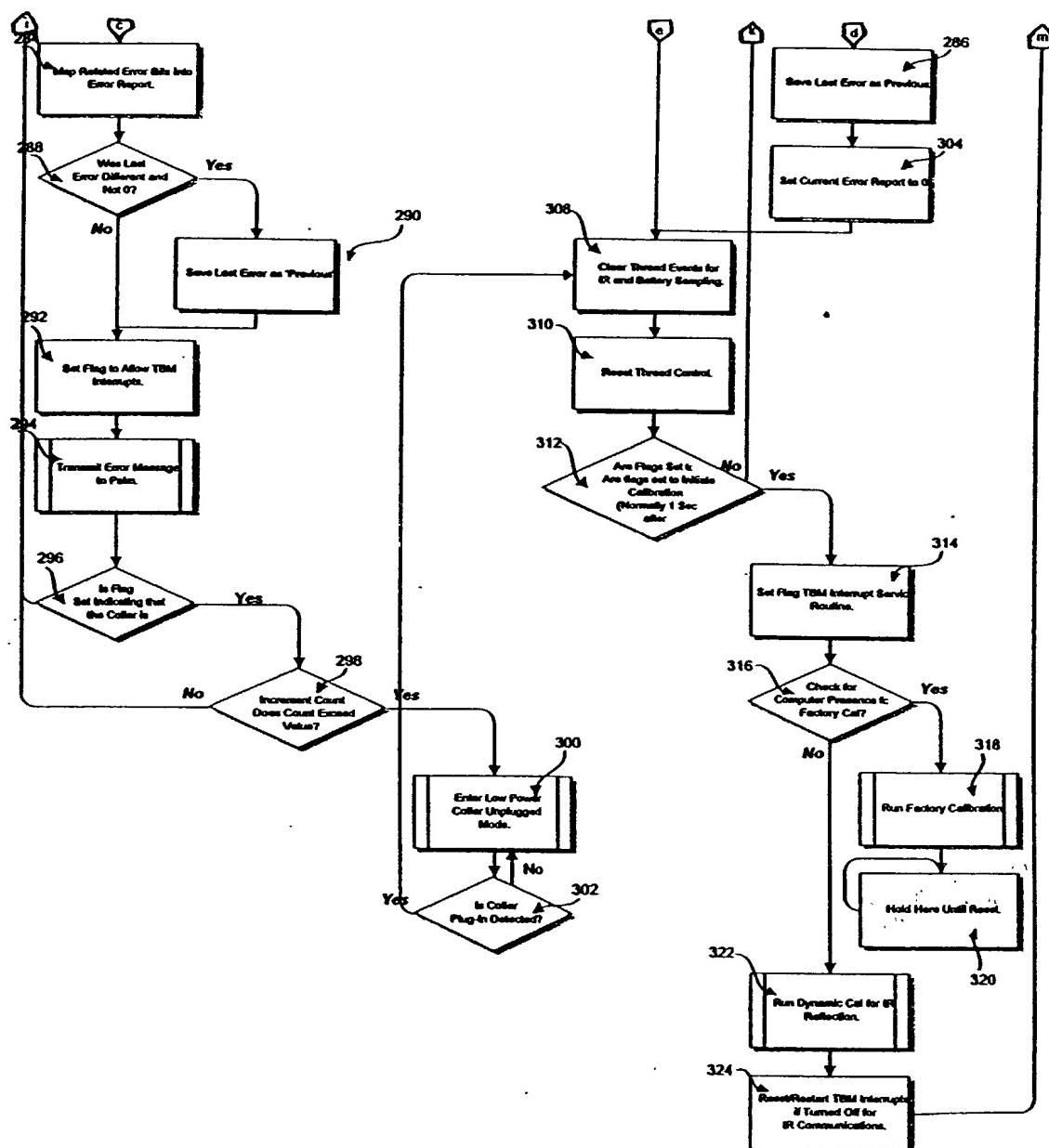


Fig. 5D

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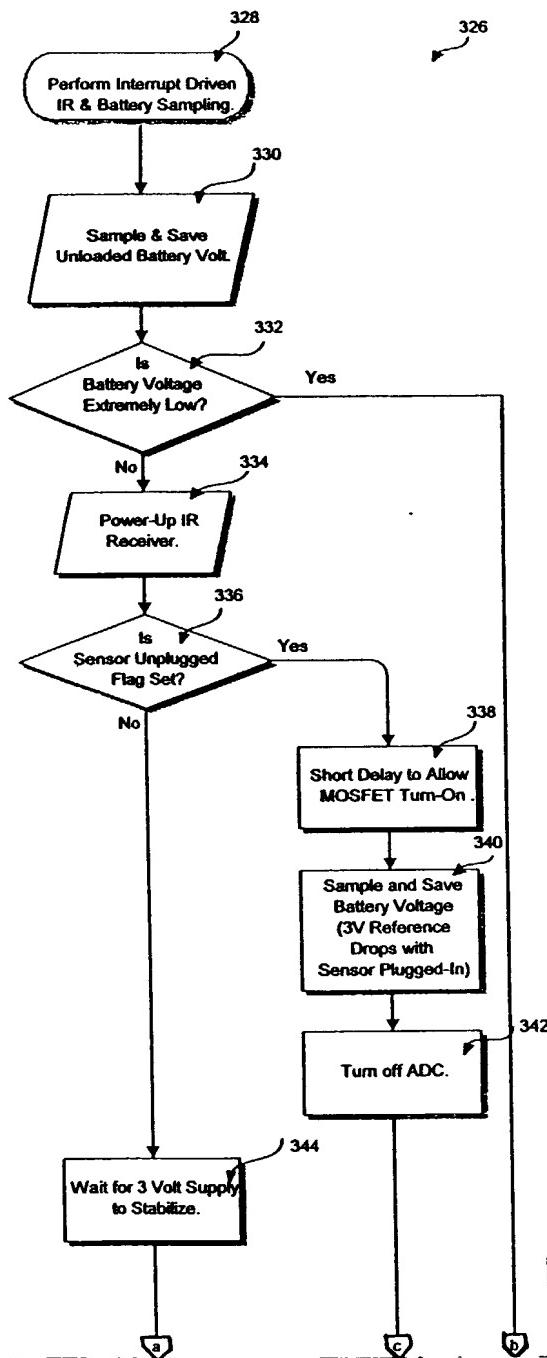


Fig. 6A

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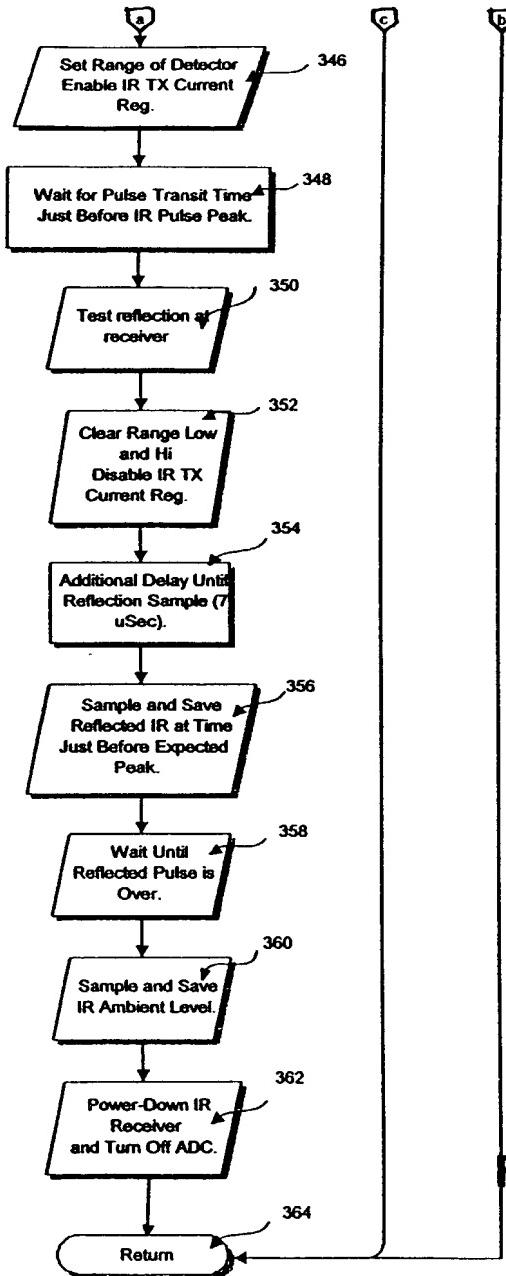
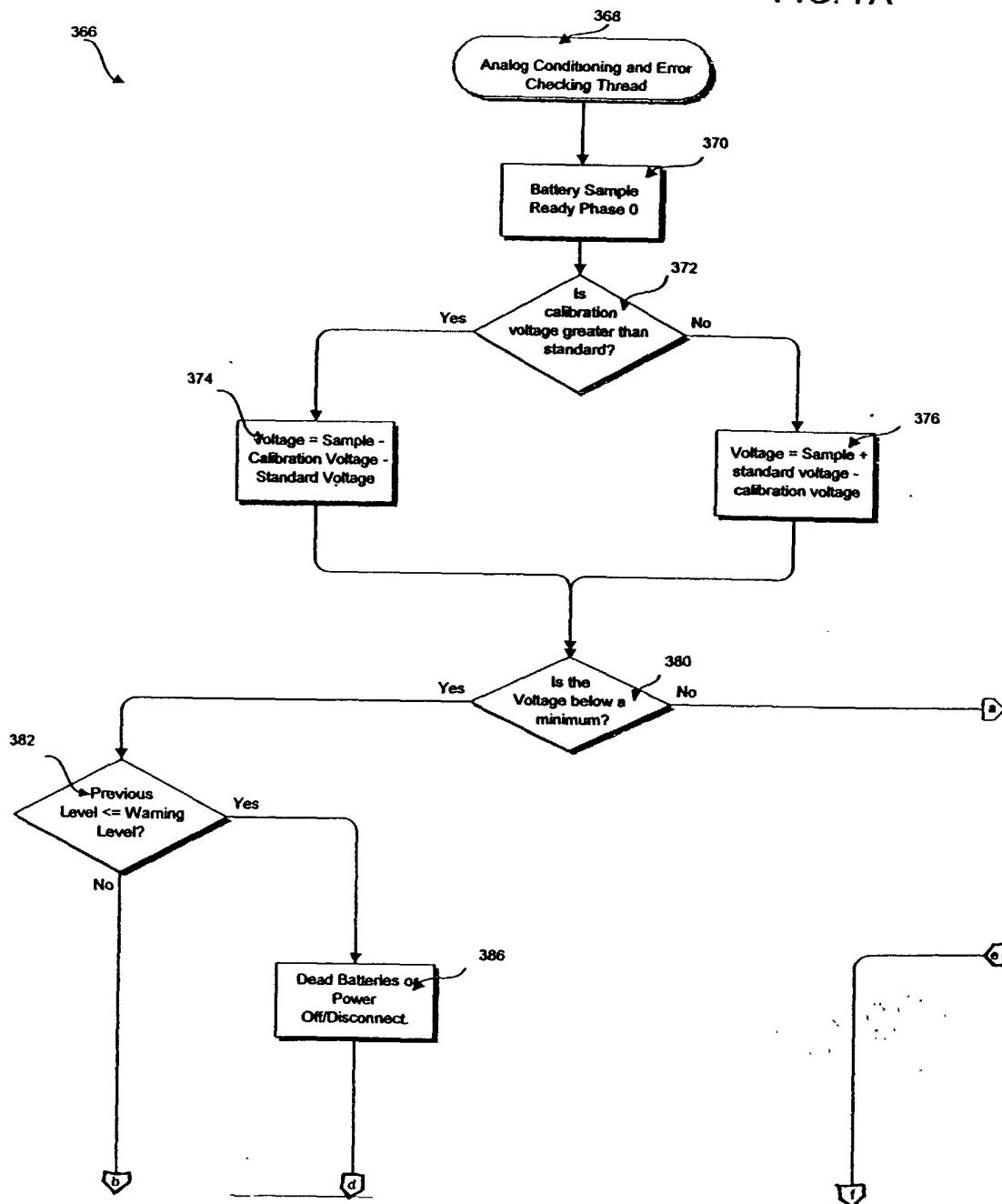


Fig. 6B

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FIG. 7A



Attorney Docket No.: 00-0895.26/US

System and Method for Wireless Data Exchange Between An

Appliance and a Handheld Device

Serial No. 10/035,370

Inventor: Patterson, et al.

Do Te Kim Phone: (256) 535-1100

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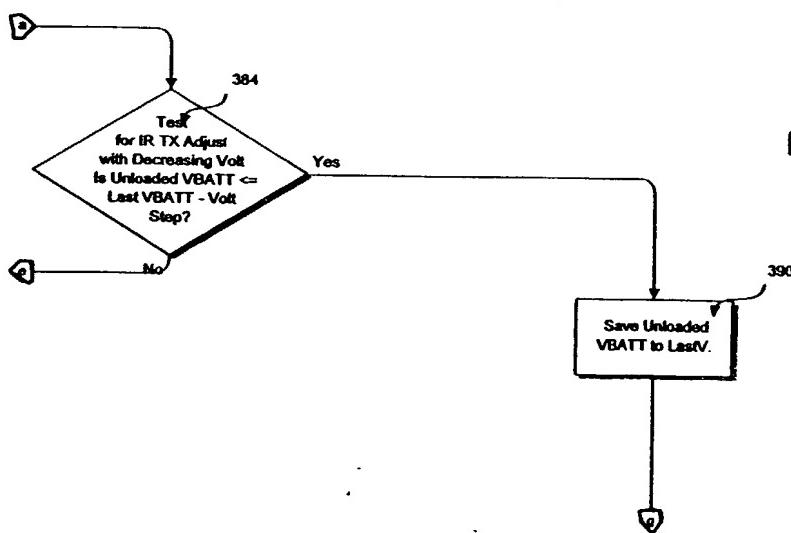


FIG. 7B

Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
Filed: 10/035,370
Patterson, et al.
Do Te Kim Phone: (256) 535-1100

13/53

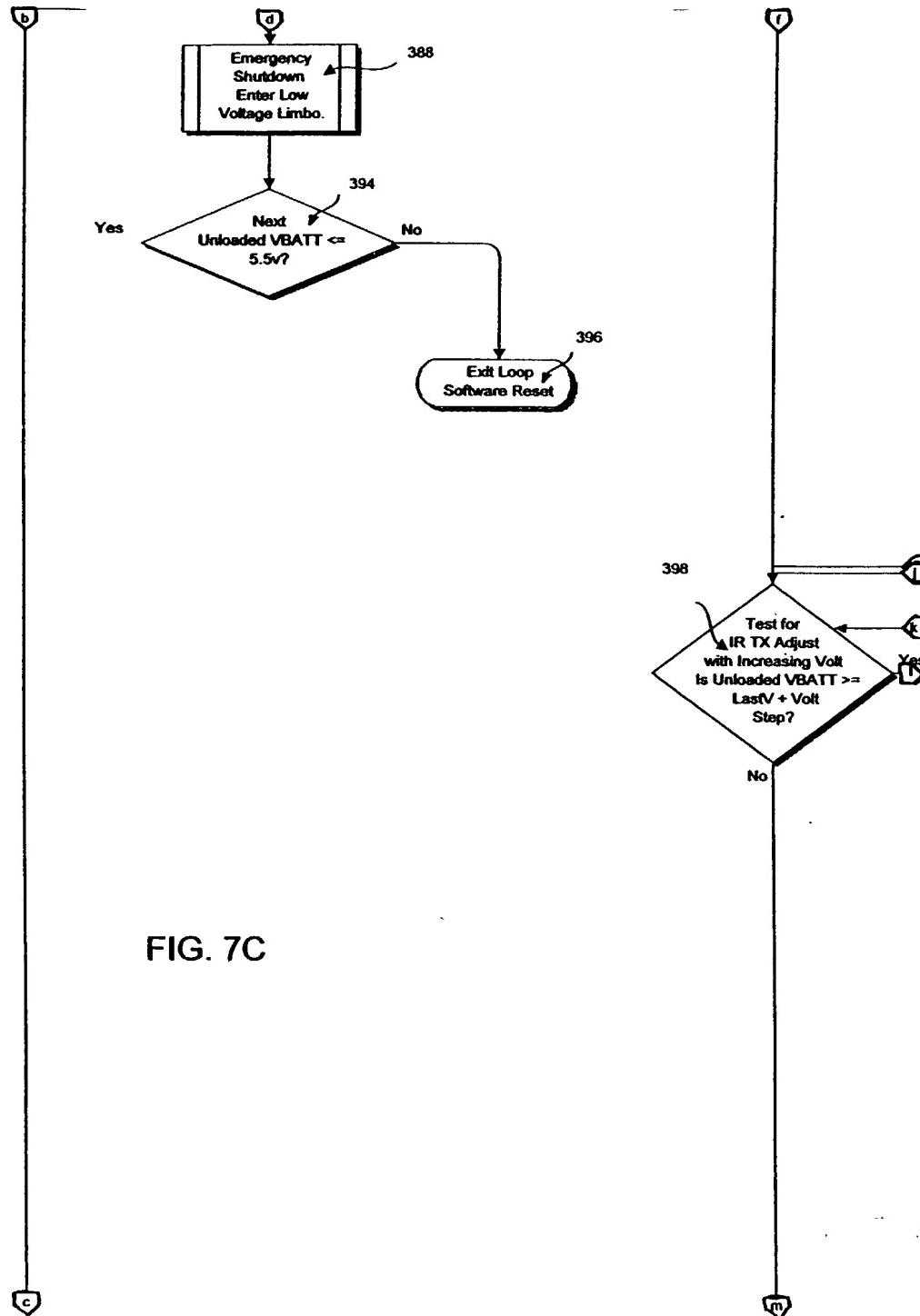


FIG. 7C

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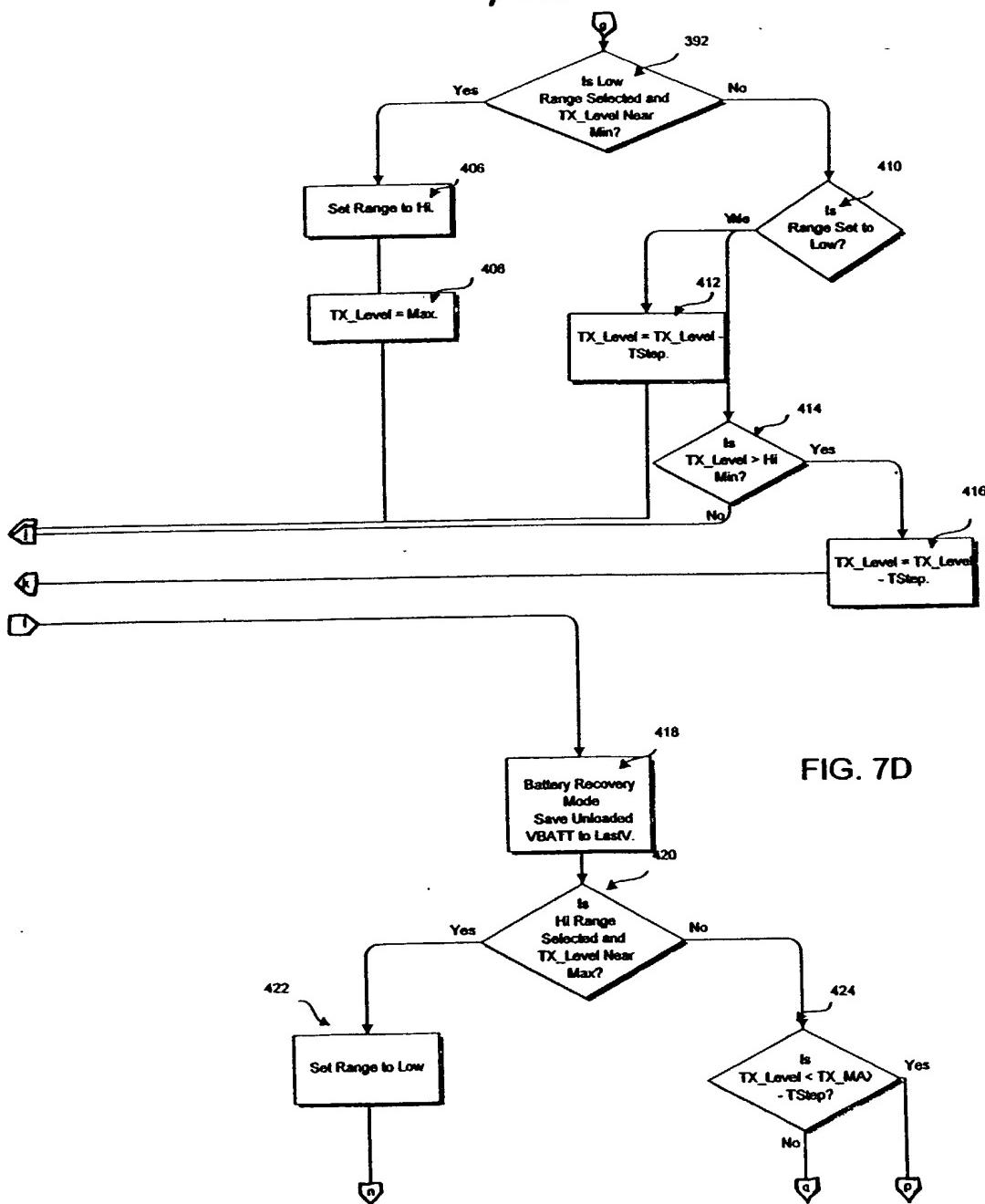


FIG. 7D

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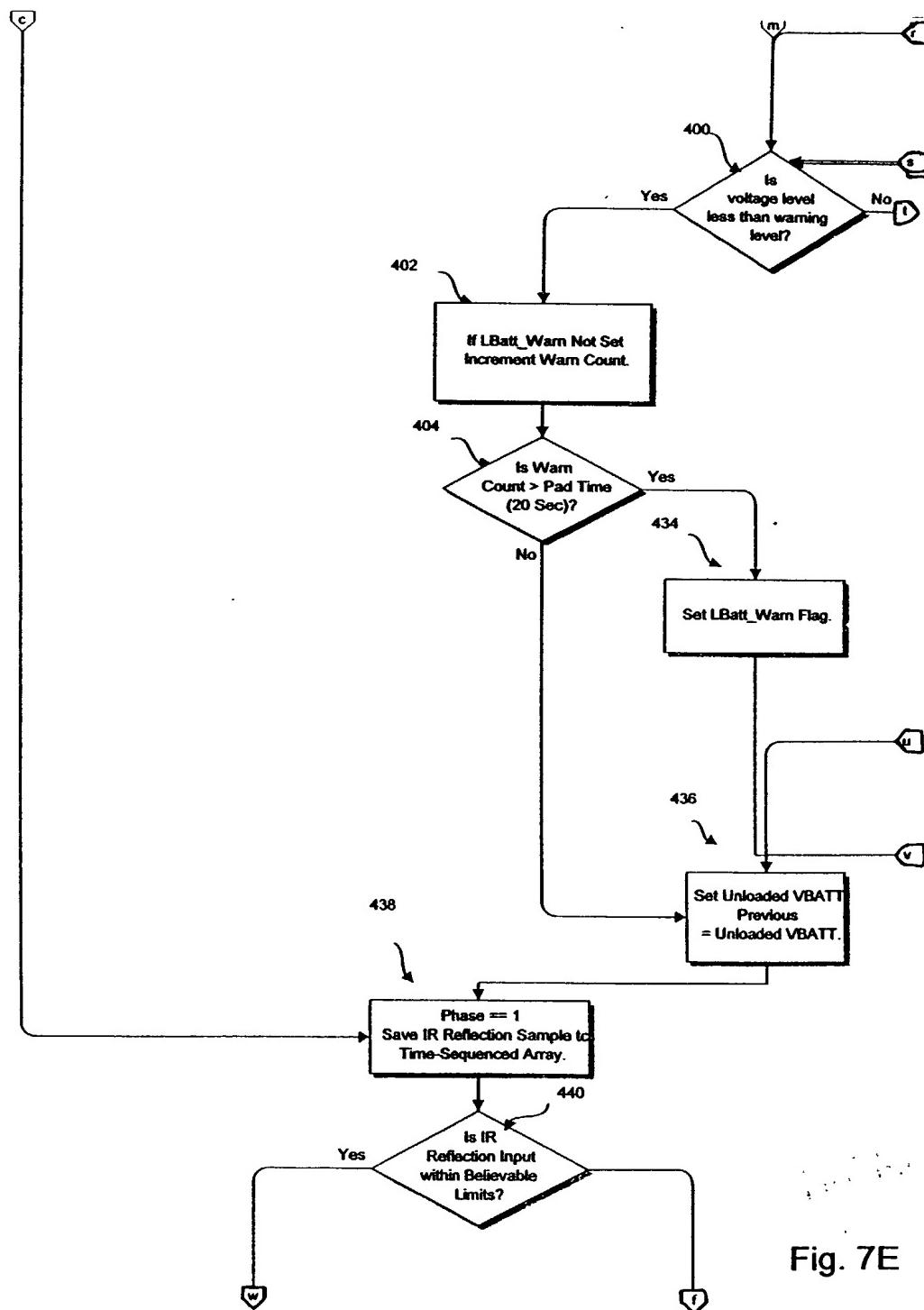


Fig. 7E

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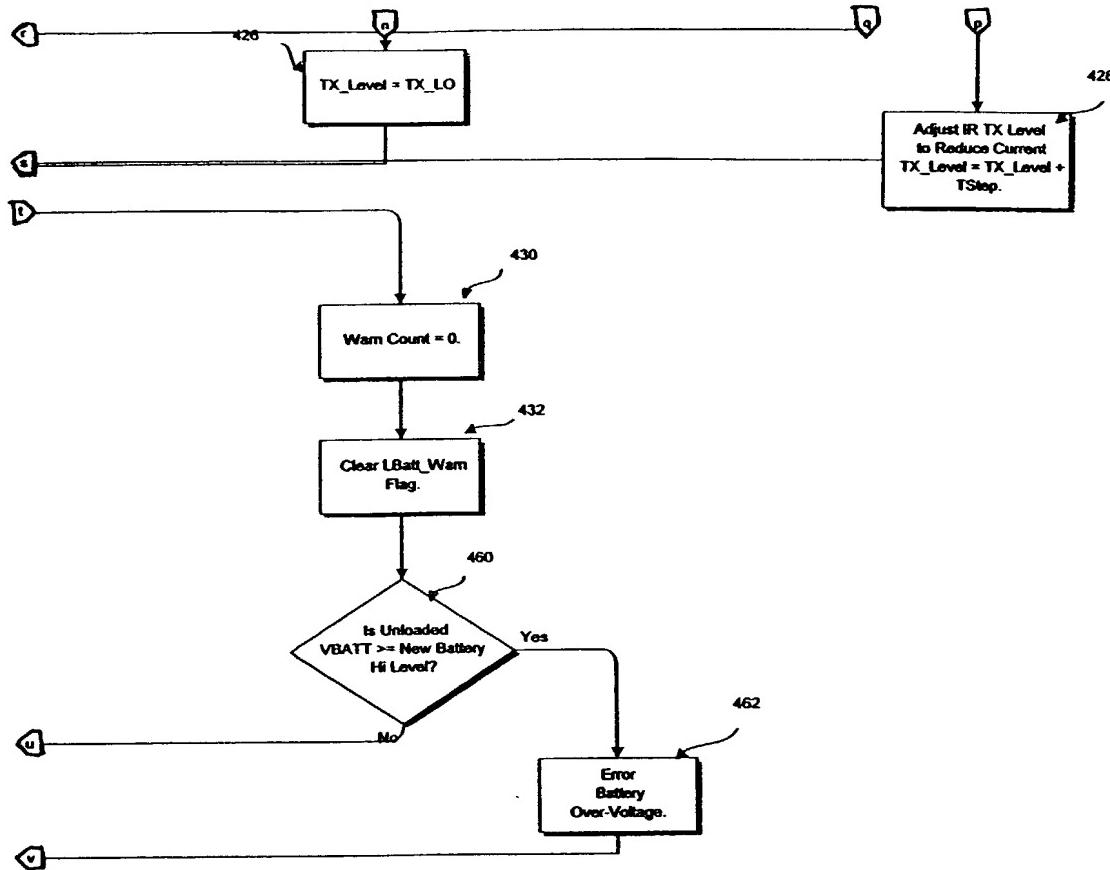


FIG. 7F

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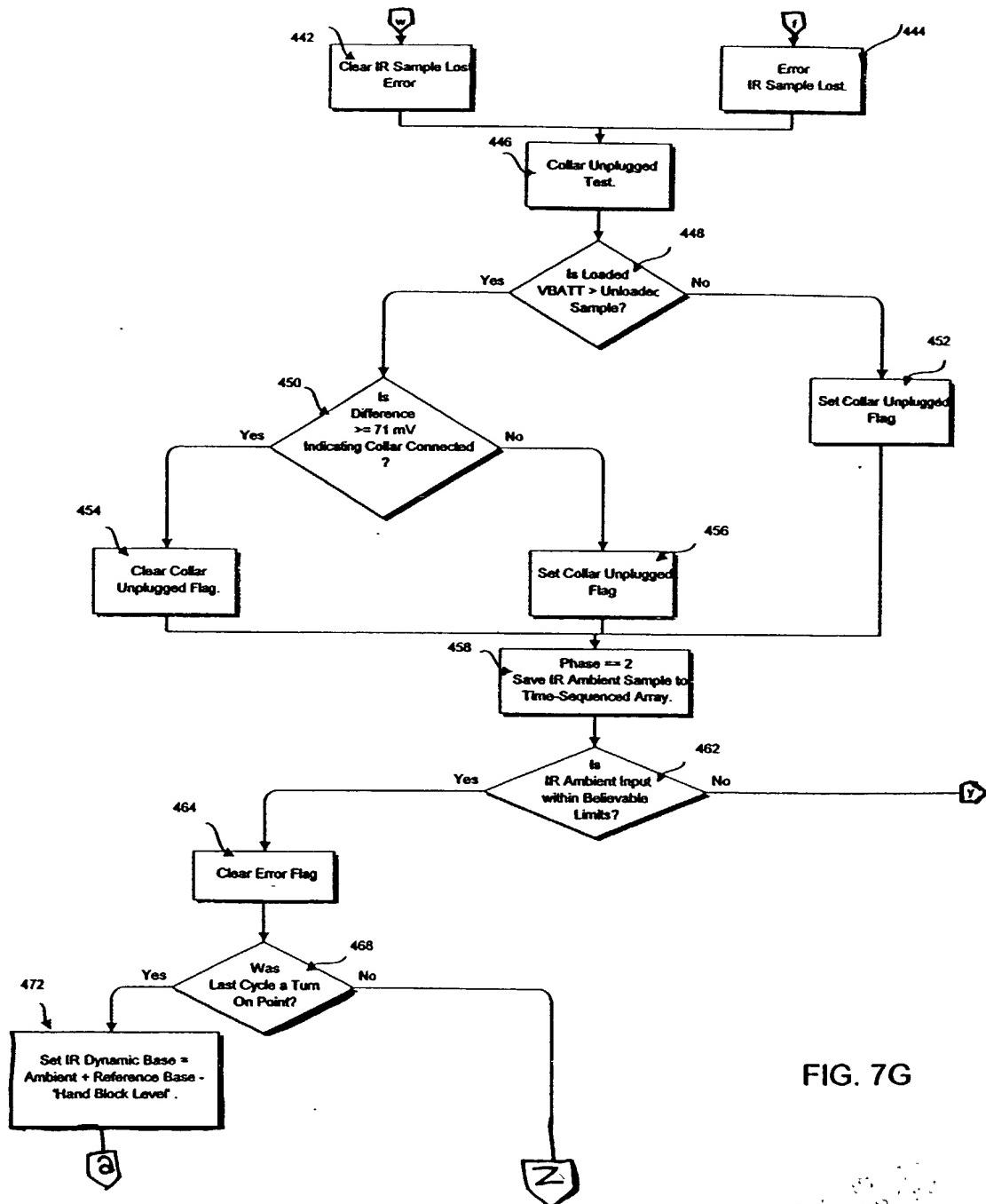


FIG. 7G

Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and Handheld Device
Serial No. 10/035,370
Inventor: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

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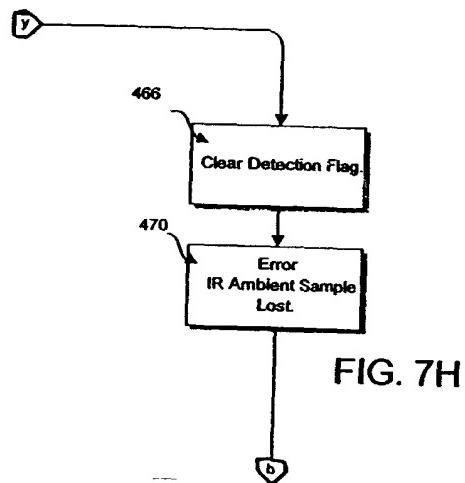


FIG. 7H

Attorney Docket No. 00-0895 26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
Script No. 10/035,370
Inventor: Patterson, et al.
Dale Kim Phone (256) 535-1100

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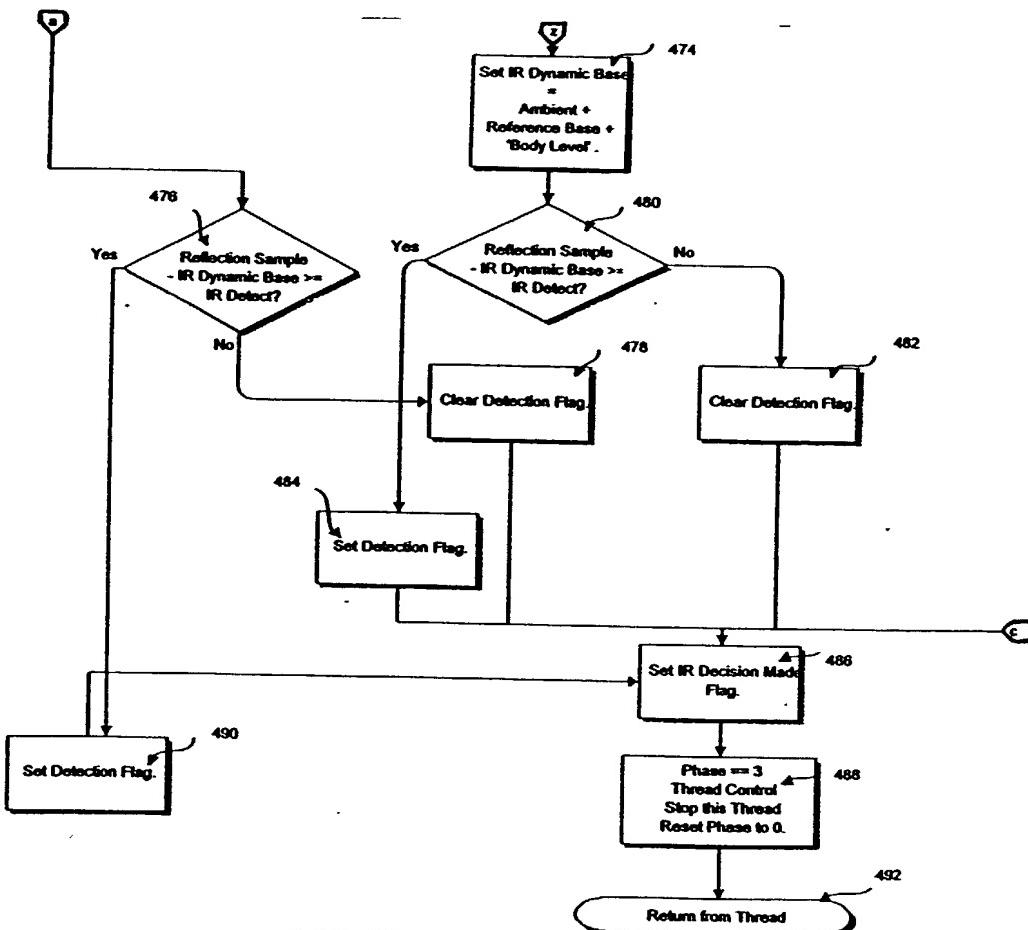


FIG. 7I

Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
Serial No. 10/035,370
Inventor: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

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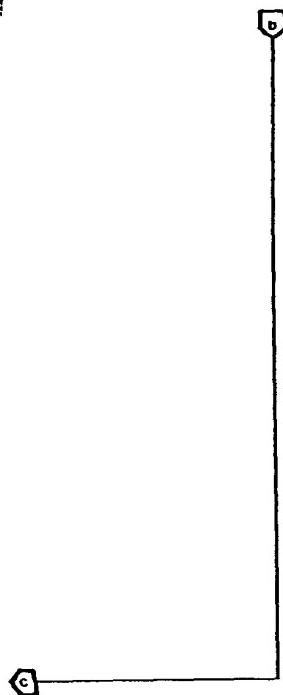
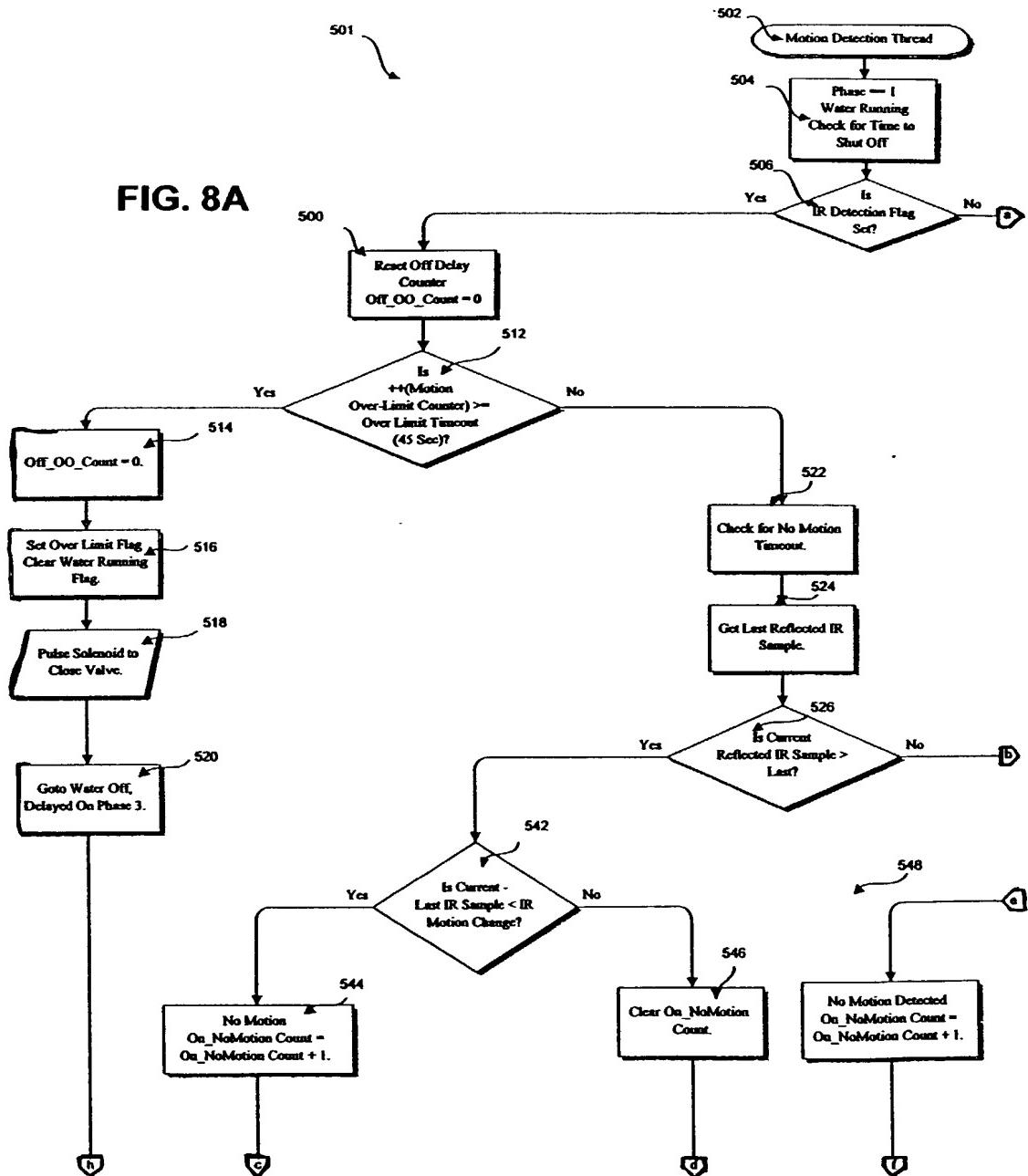


FIG. 7J

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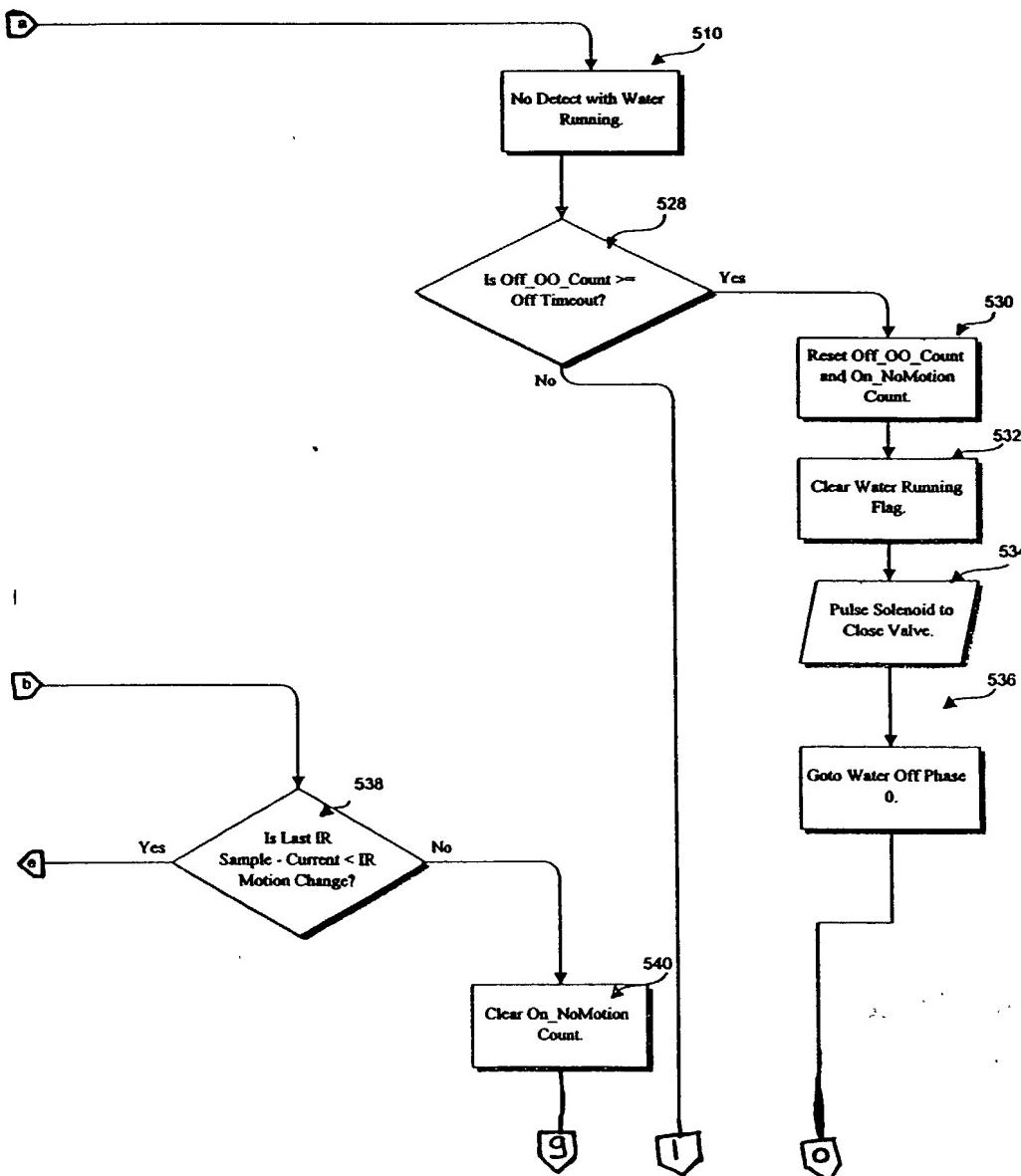
FIG. 8A



Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
 No. 10/035,370
 Inventor: Patterson, et al.
 Do Te Kim Phone: (256) 535-1100

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FIG. 8B



Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
S. No. 10/035,370
Patterson, et al.
Do Te Kim Phone. (256) 535-1100

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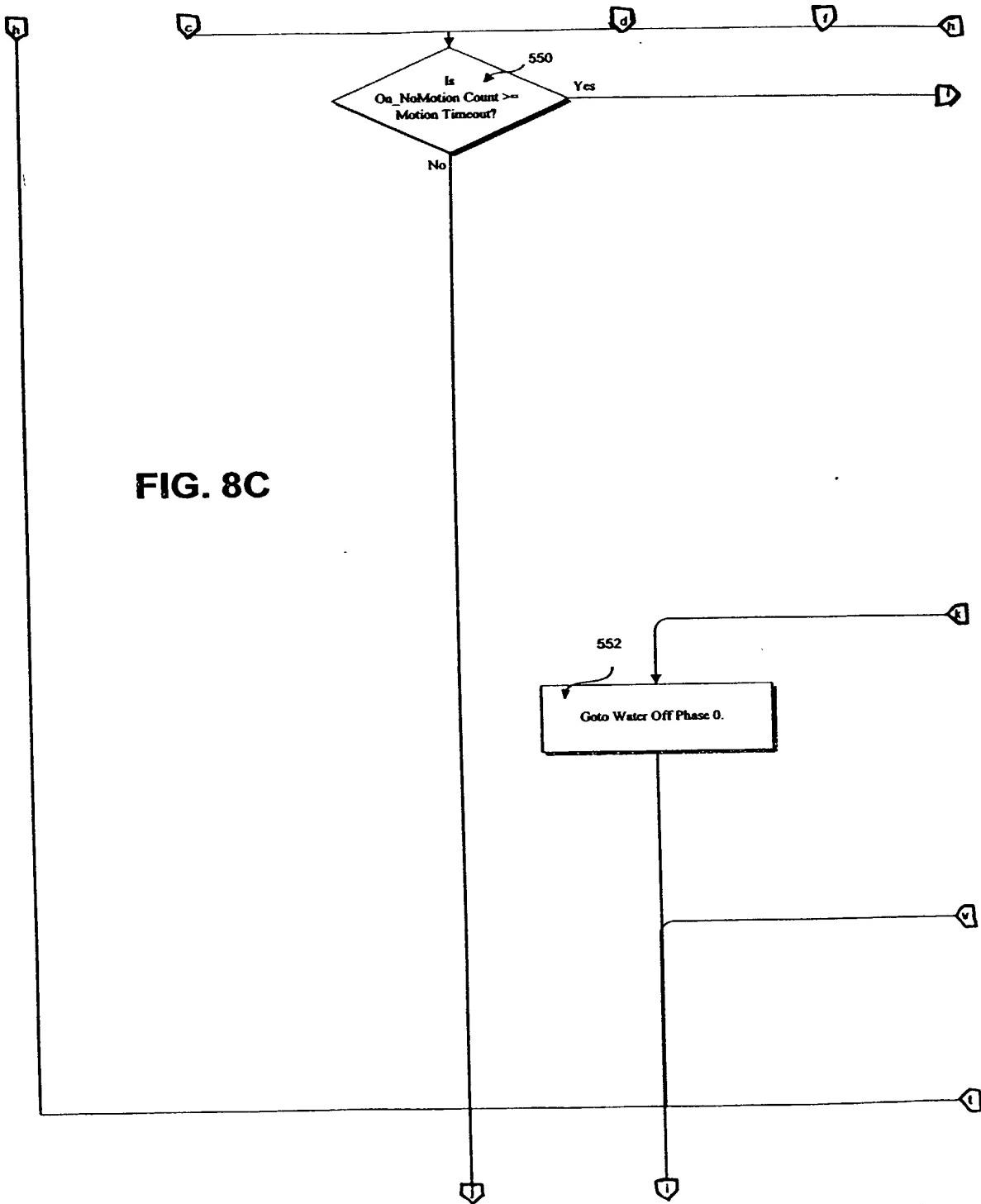
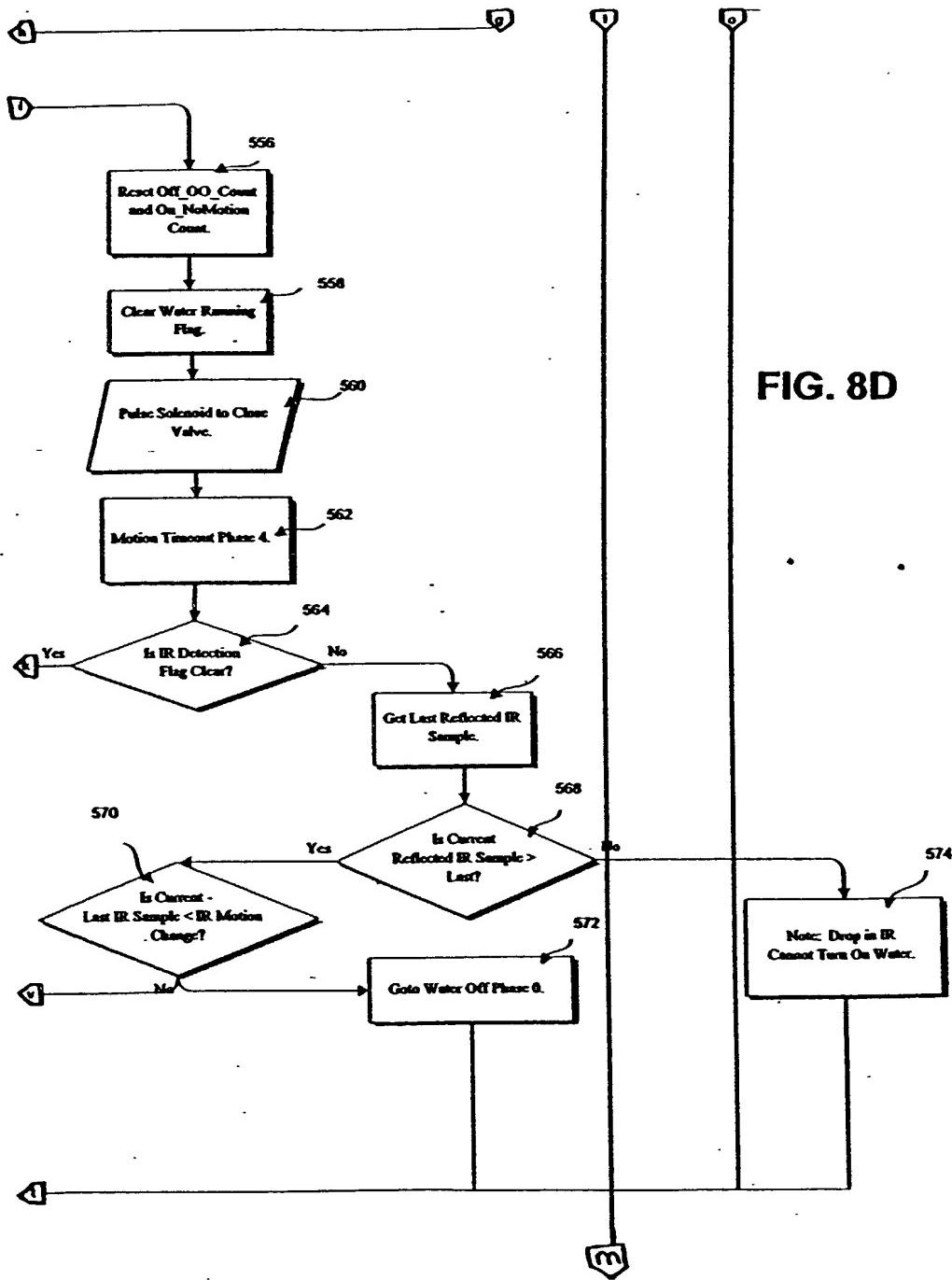


FIG. 8C

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Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
Serial No.: 10/035,370
Inventor: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

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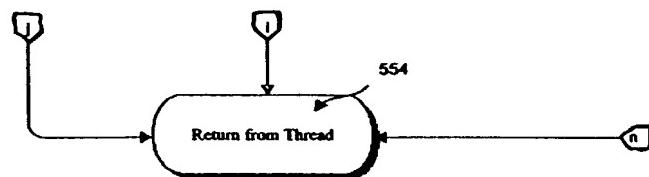


FIG. 8E

Attorney Docket No.: 00-0895.26/US

System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device

Serial No.: 10/035,370

Inventor: Patterson, et al.

Do Te Kim Phone: (256) 535-1100

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FIG. 8F

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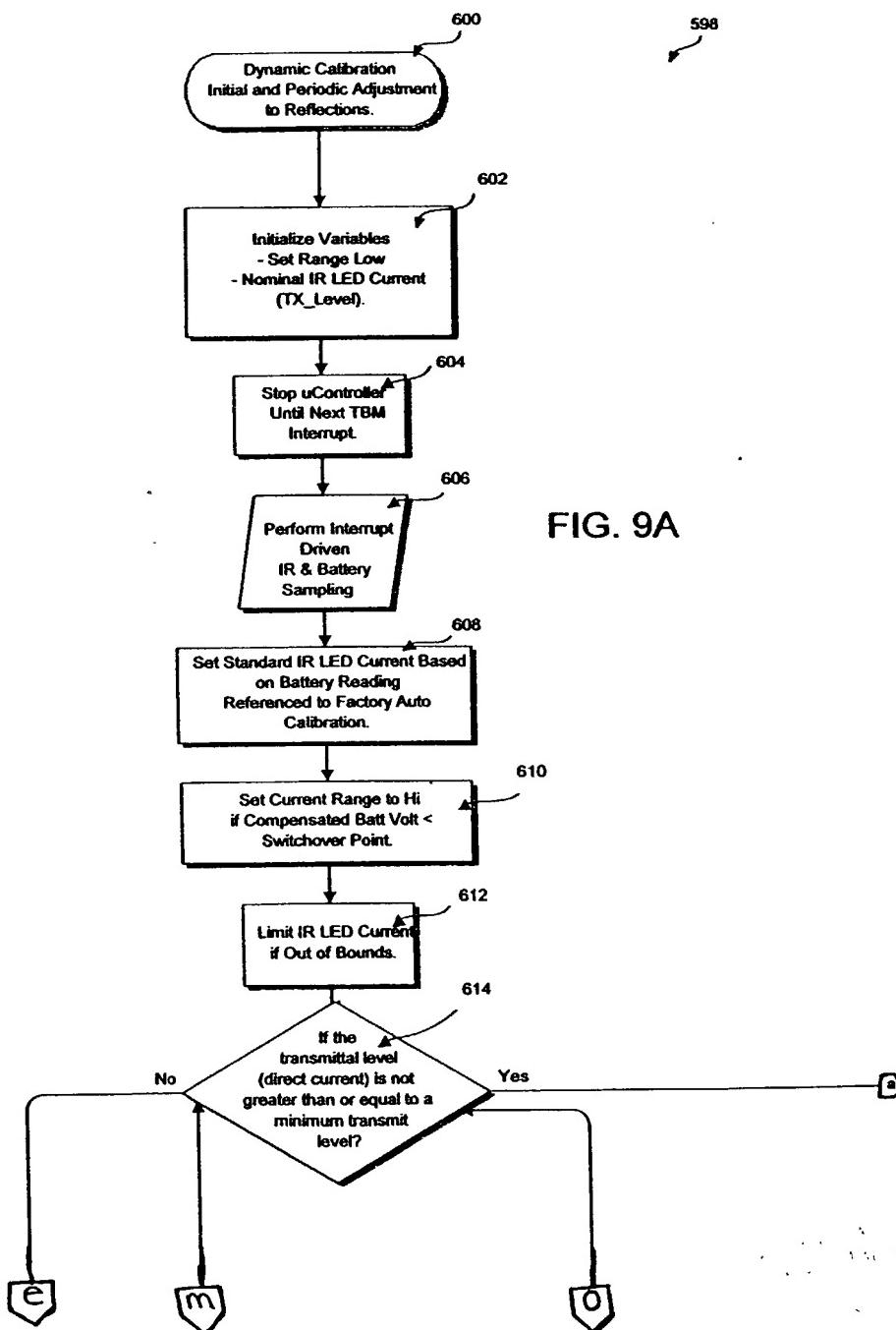
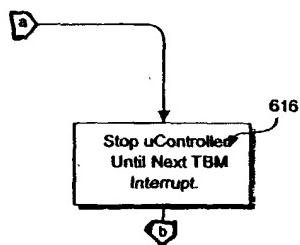


FIG. 9A

Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
No. 10/035,370
or: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

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FIG. 9B



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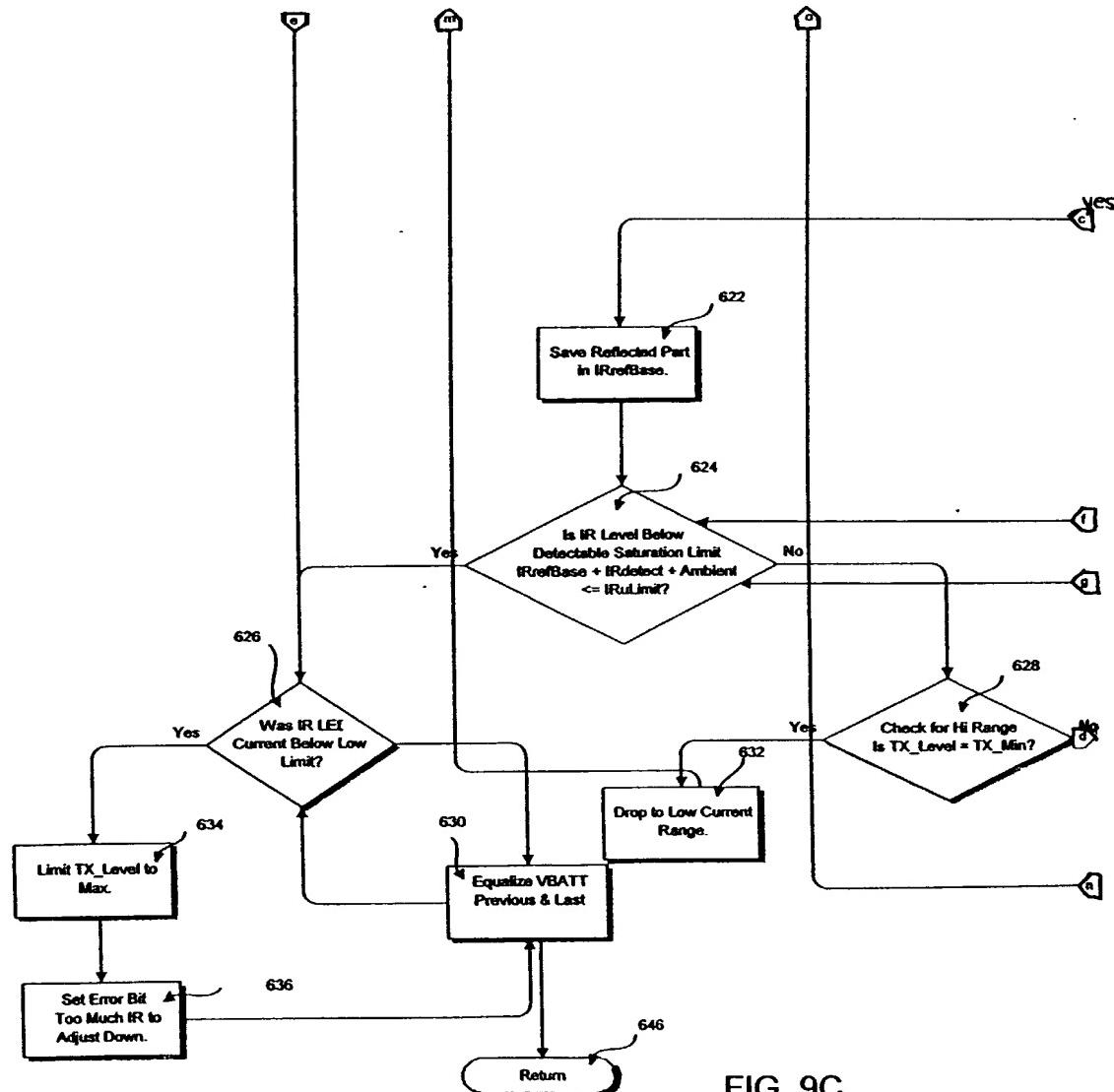


FIG. 9C

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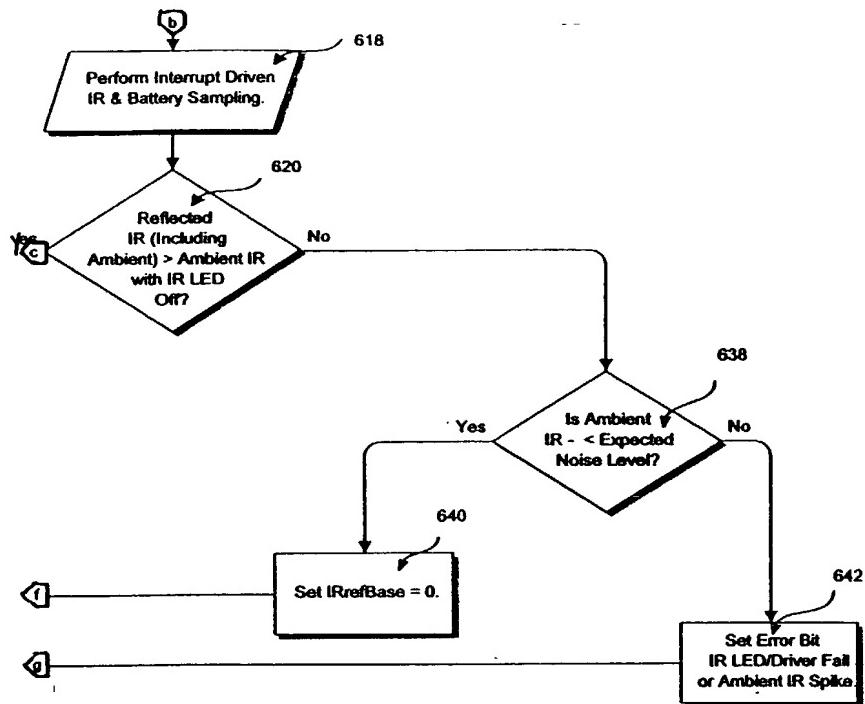
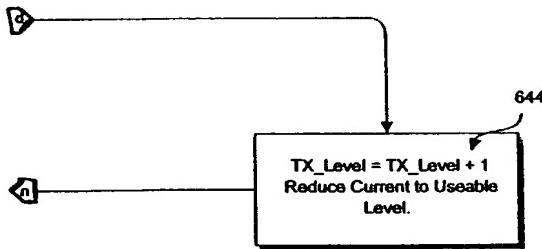


FIG. 9D



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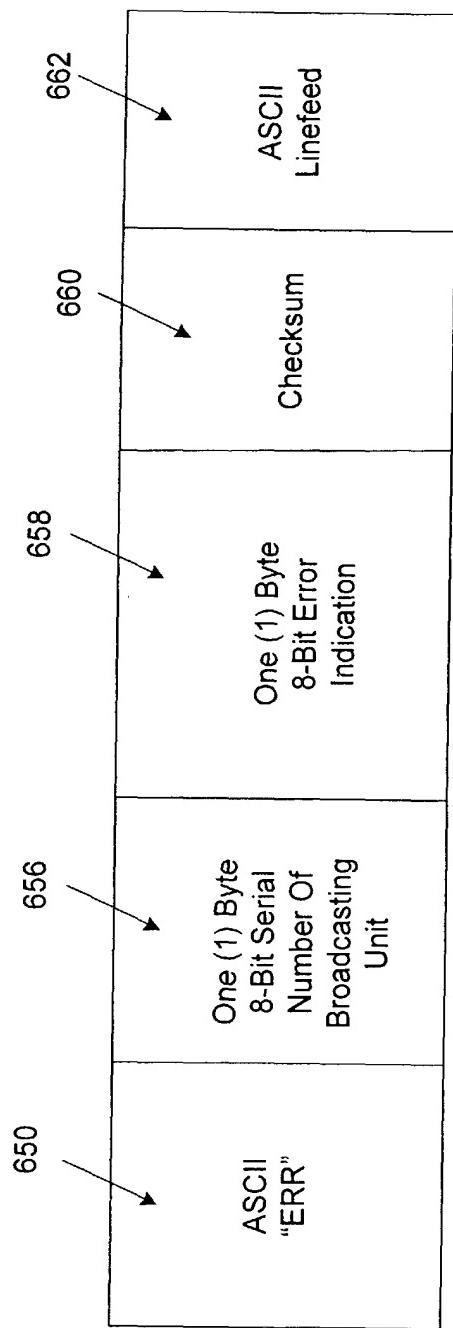


FIG. 10

Attorney Docket No.. 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device

Fo. 10/035,370

Lawyer: Patterson, et al.
Do Te Kim Phone (256) 535-1100

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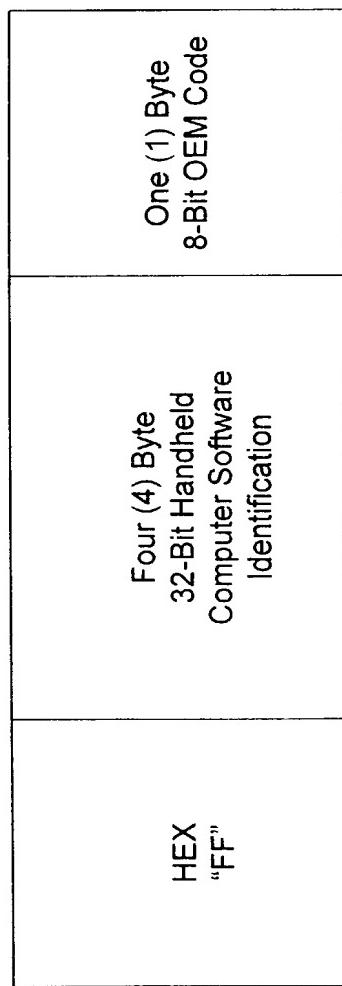


FIG. 11

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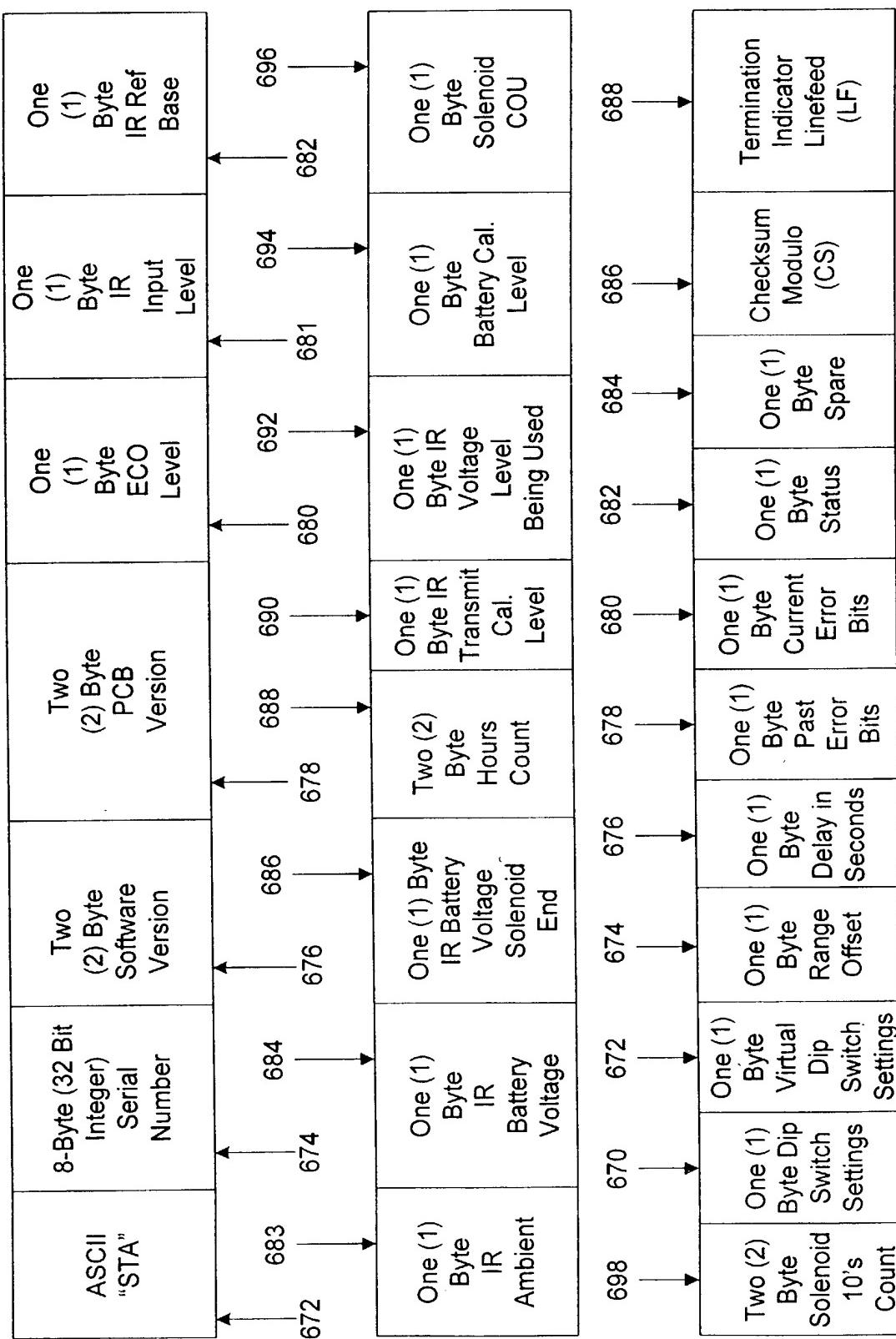


FIG. 12

Attorney Docket No 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
Serial No. 10/035,370
Patterson, et al.
Date: 10/10/00 Phone: (256) 535-1100

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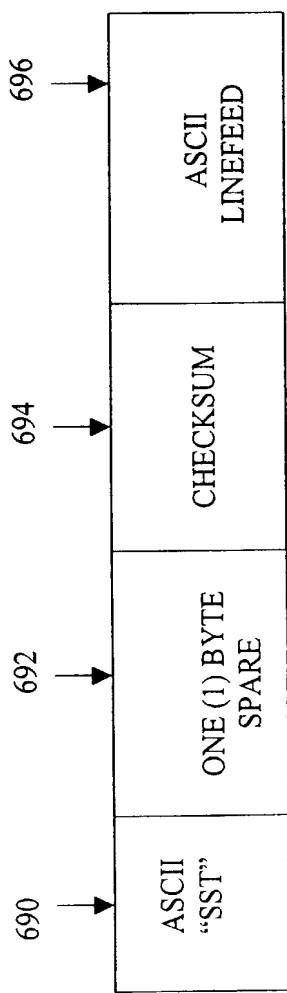


FIG. 13

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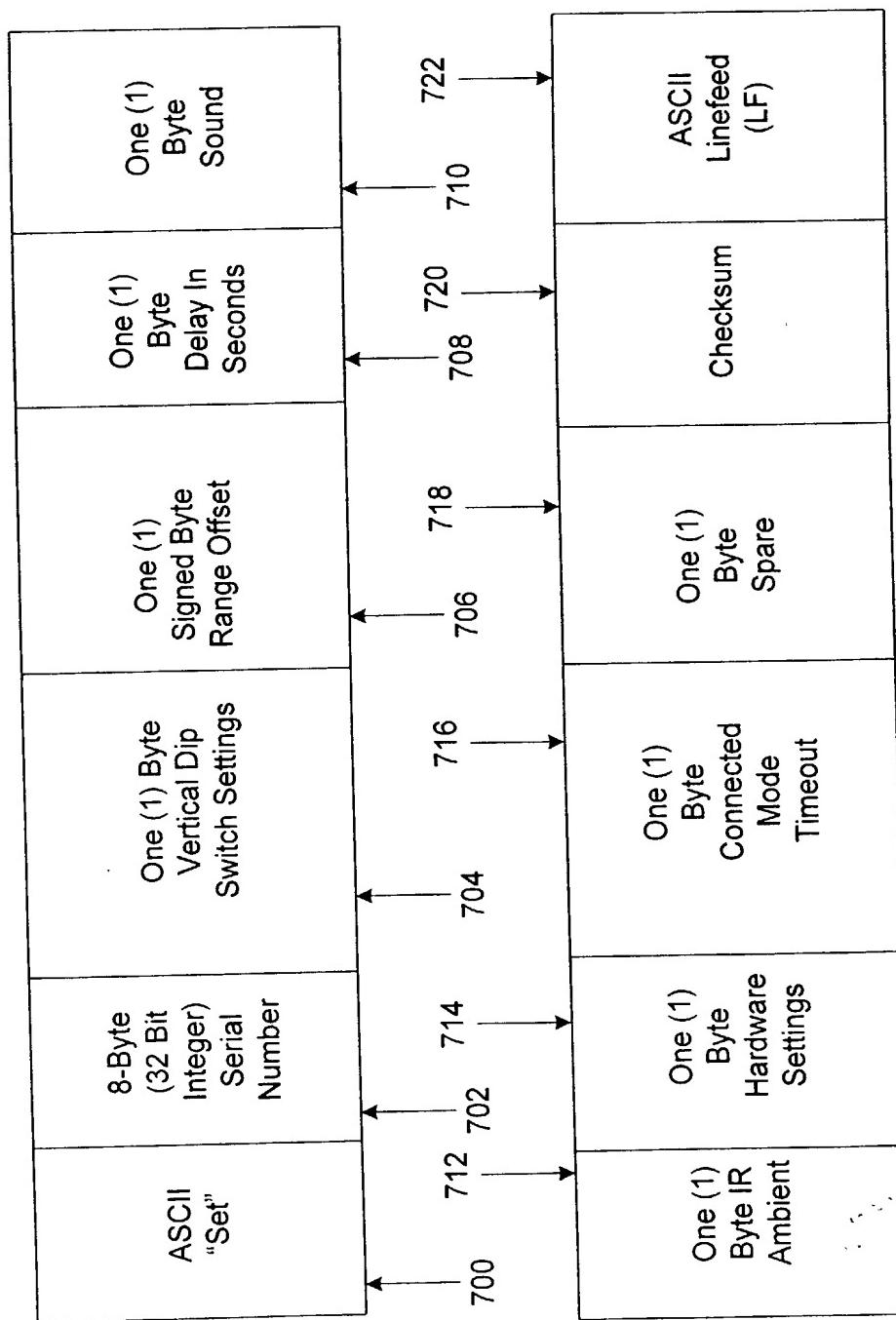


FIG. 14

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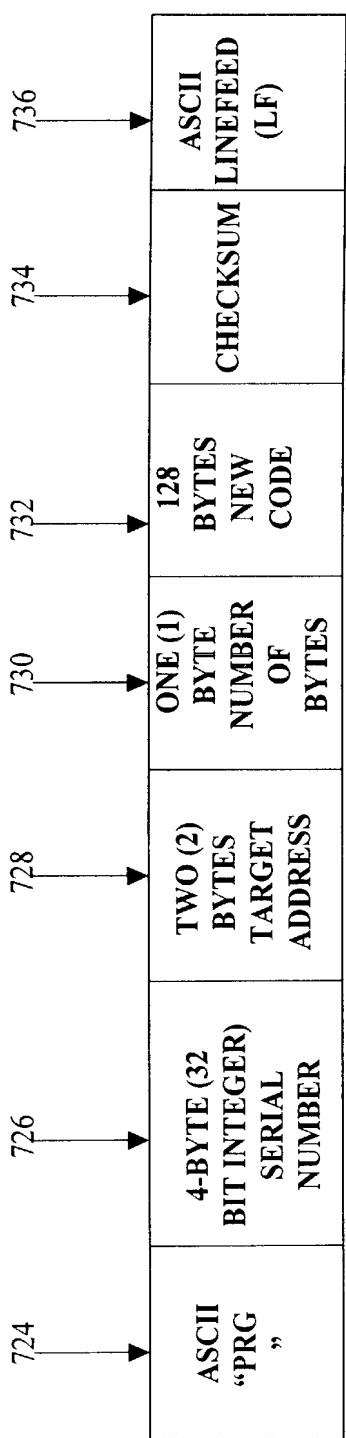


FIG. 15

Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
Serial No. 10/035,370
Inventor: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

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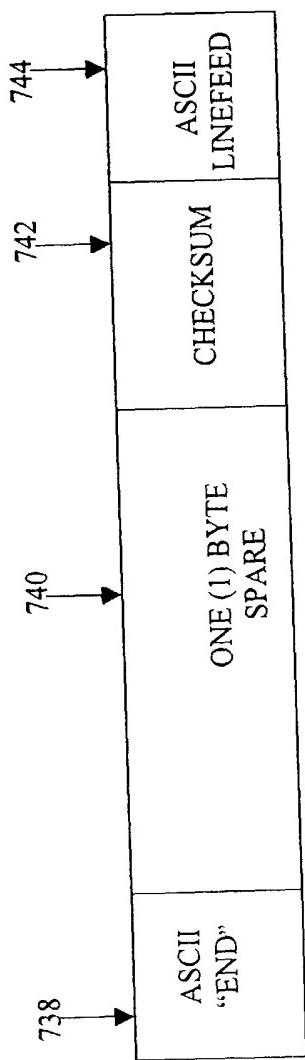


FIG. 16

Attorney Docket No. 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
Serial No. 10/035,370
Inventor: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

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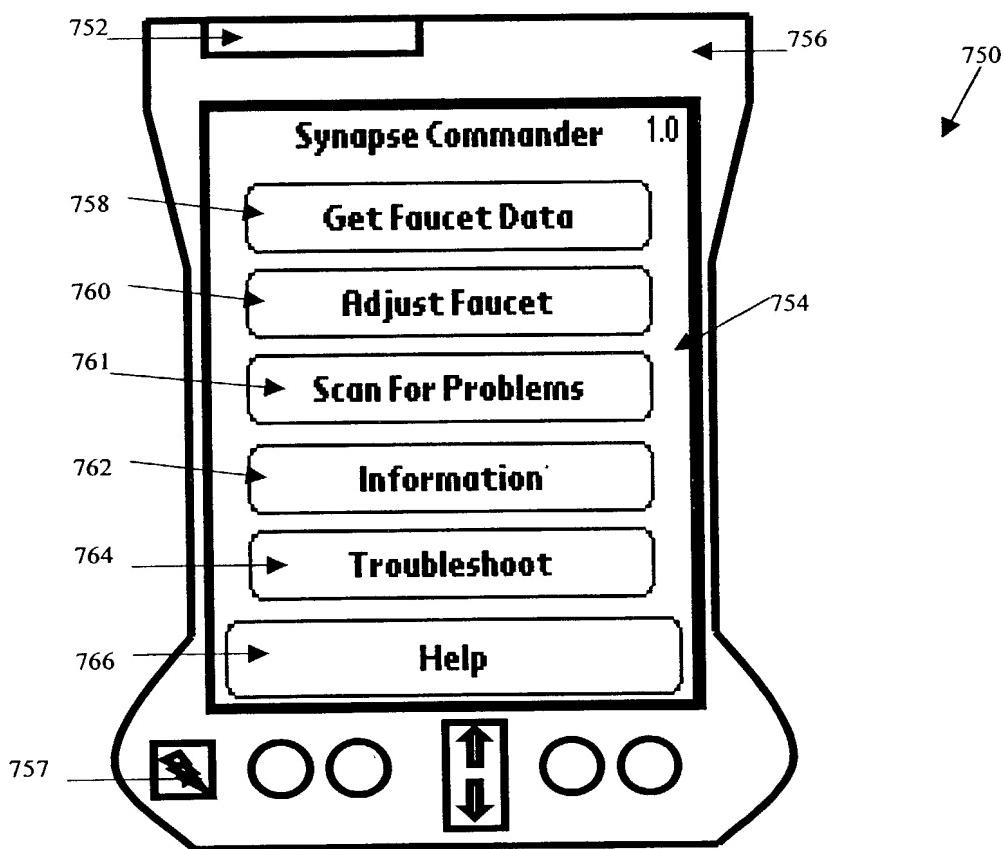


FIG. 17

Attorney Docket No.. 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
Serial No. 10/035,370
Inventor: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

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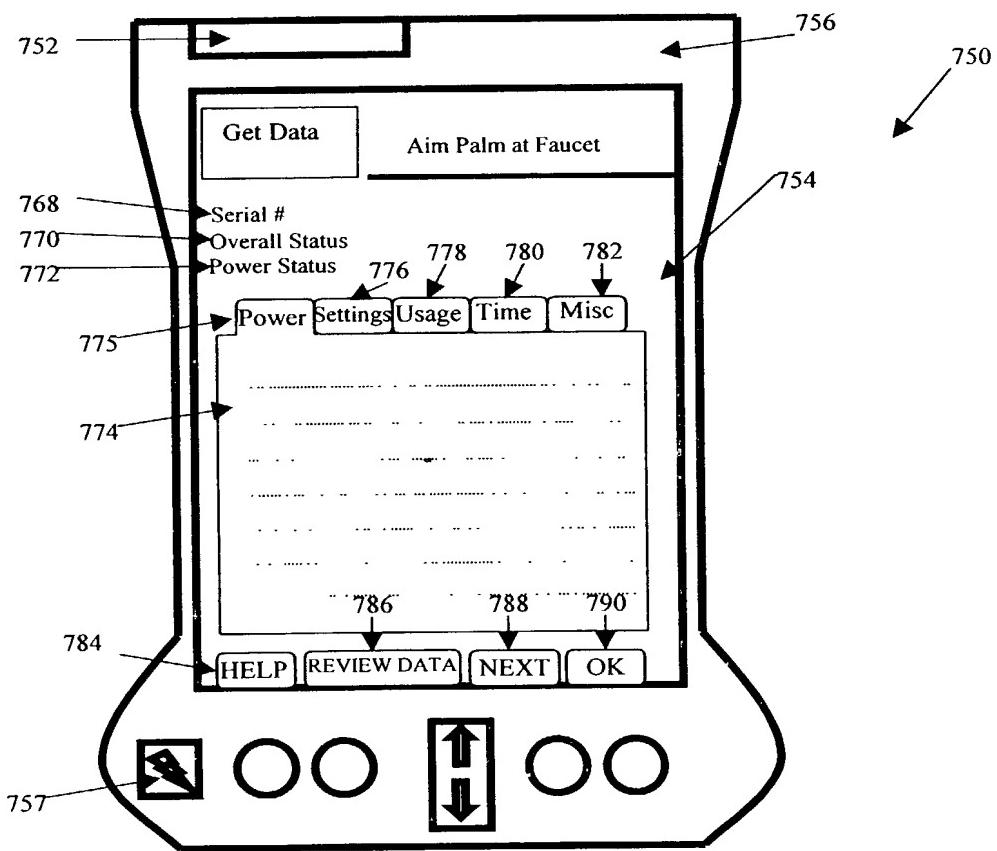


FIG. 18

Attorney Docket No.. 00-0895.26/US
System and Method for Wireless Data Exchange Between an Appliance and a Handheld Device
Filed Nov. 10/035,370
Inventor, Patterson, et al.
Do Te Kim Phone (256) 535-1100

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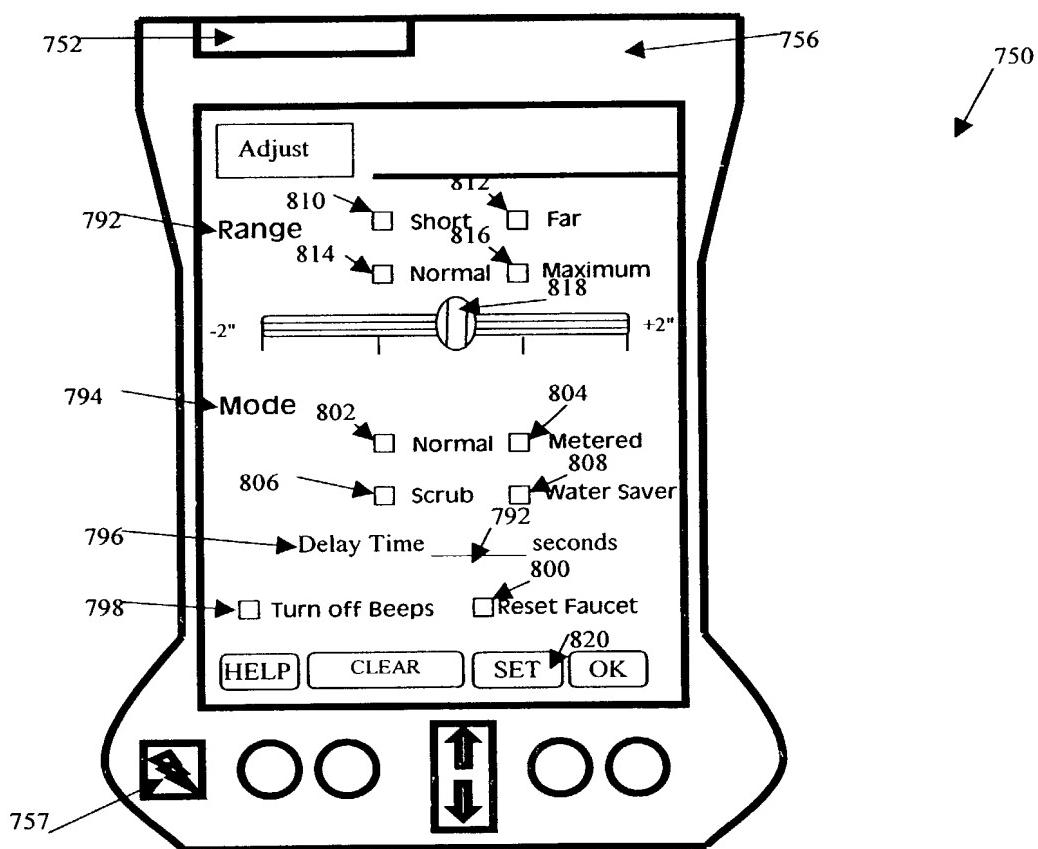


FIG. 19

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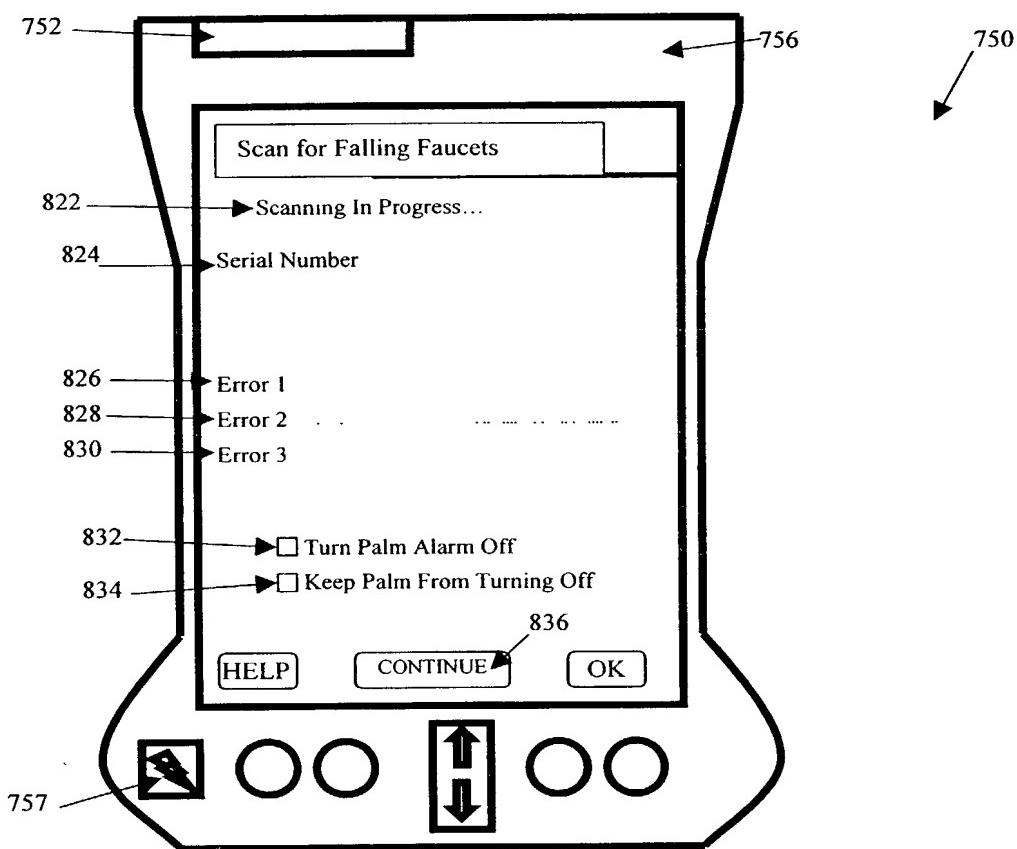
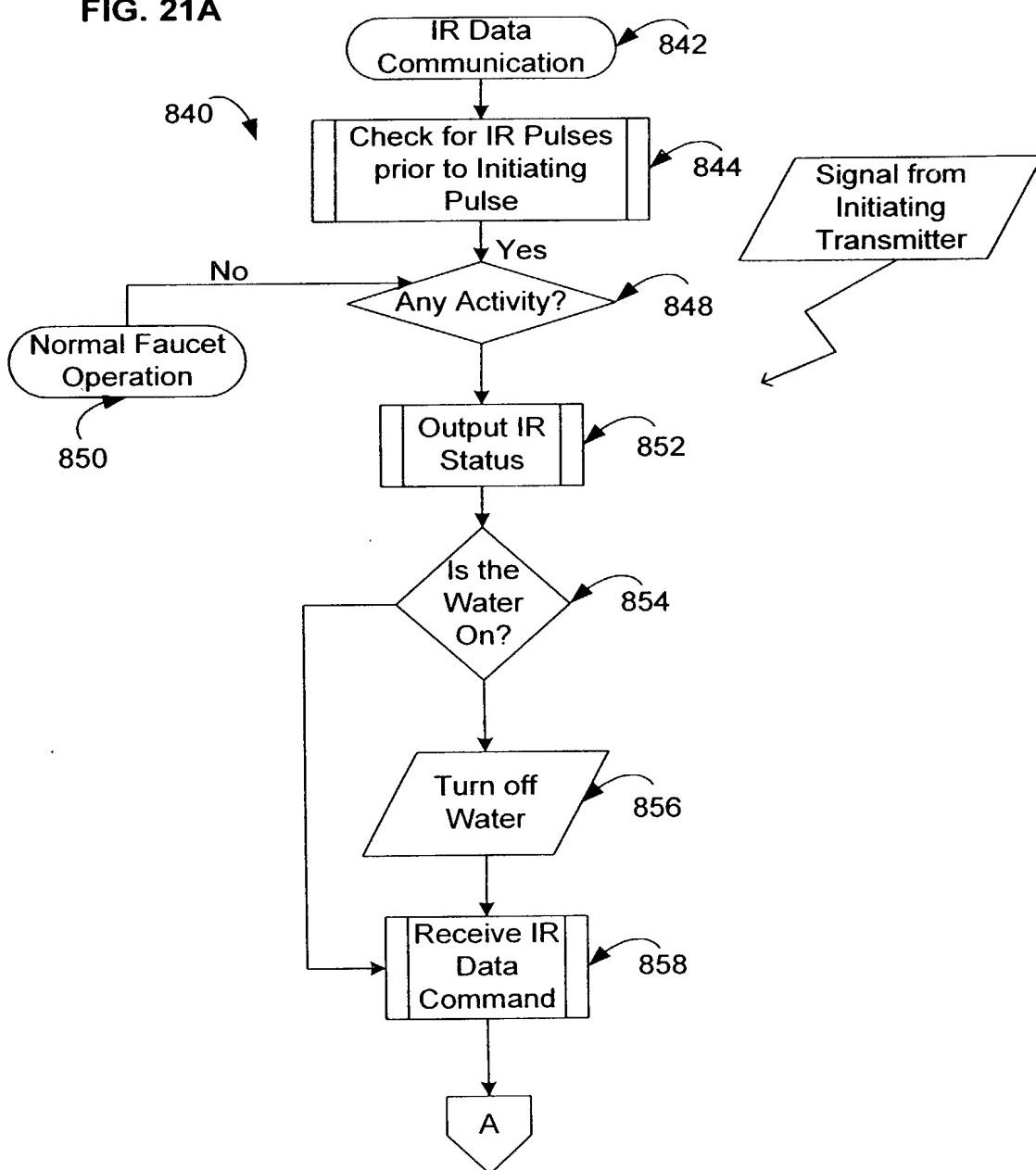


FIG. 20

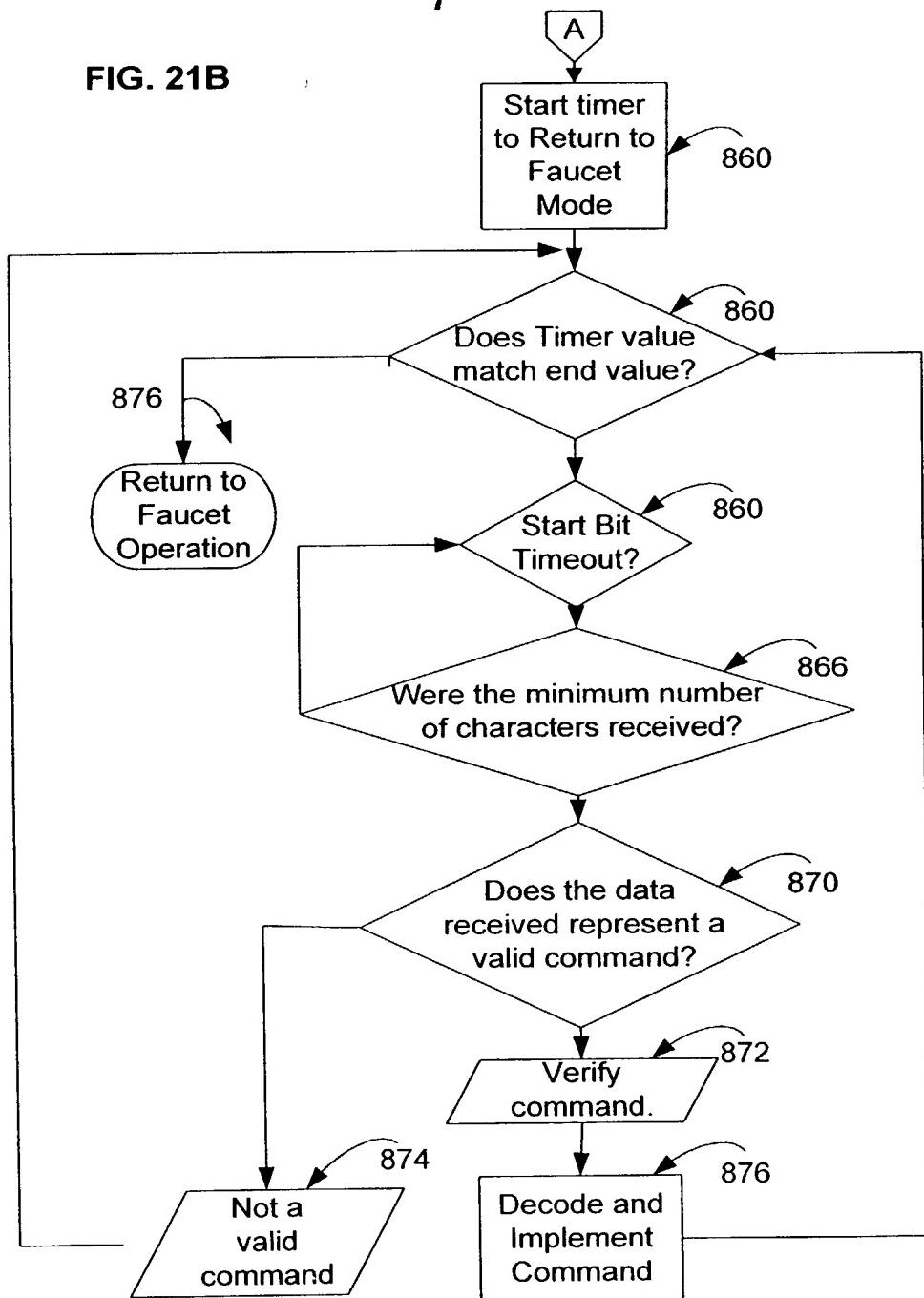
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FIG. 21A



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FIG. 21B



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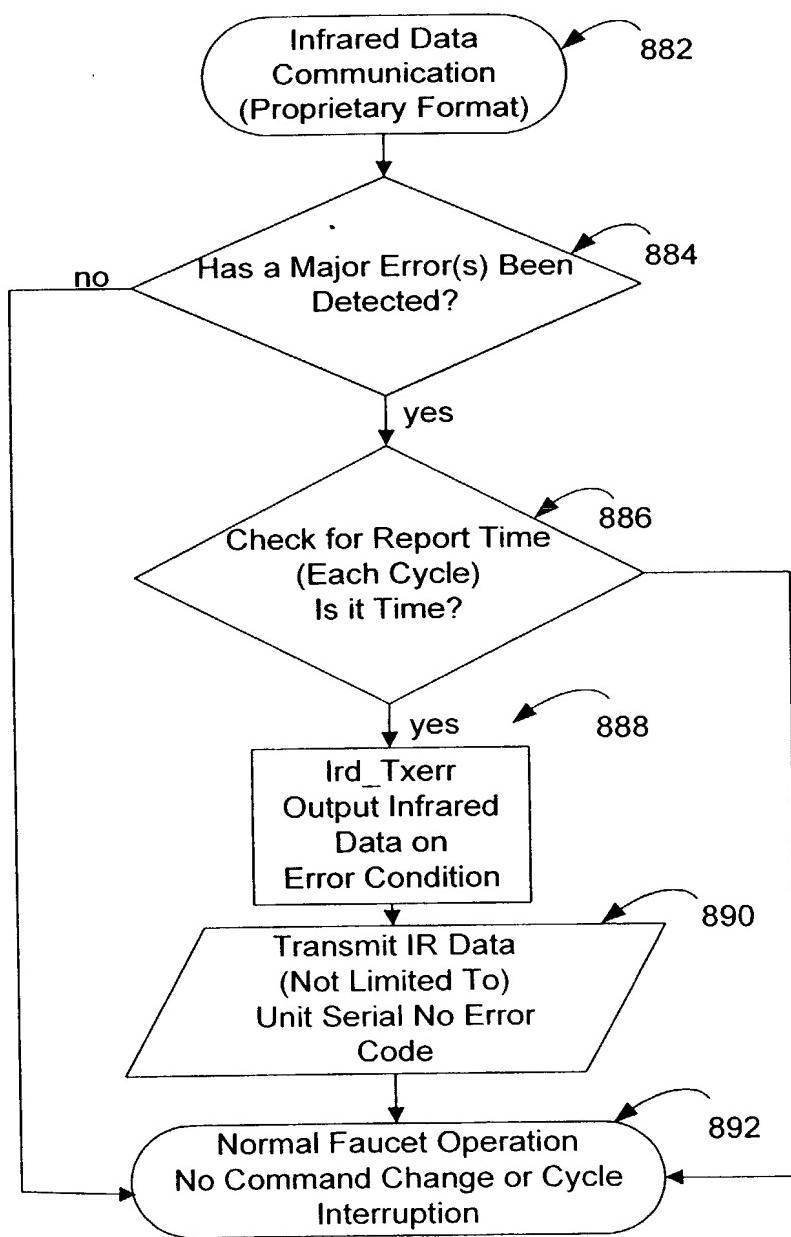


FIG. 22

Attorney Docket No.: 00-0895.26/US

System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device

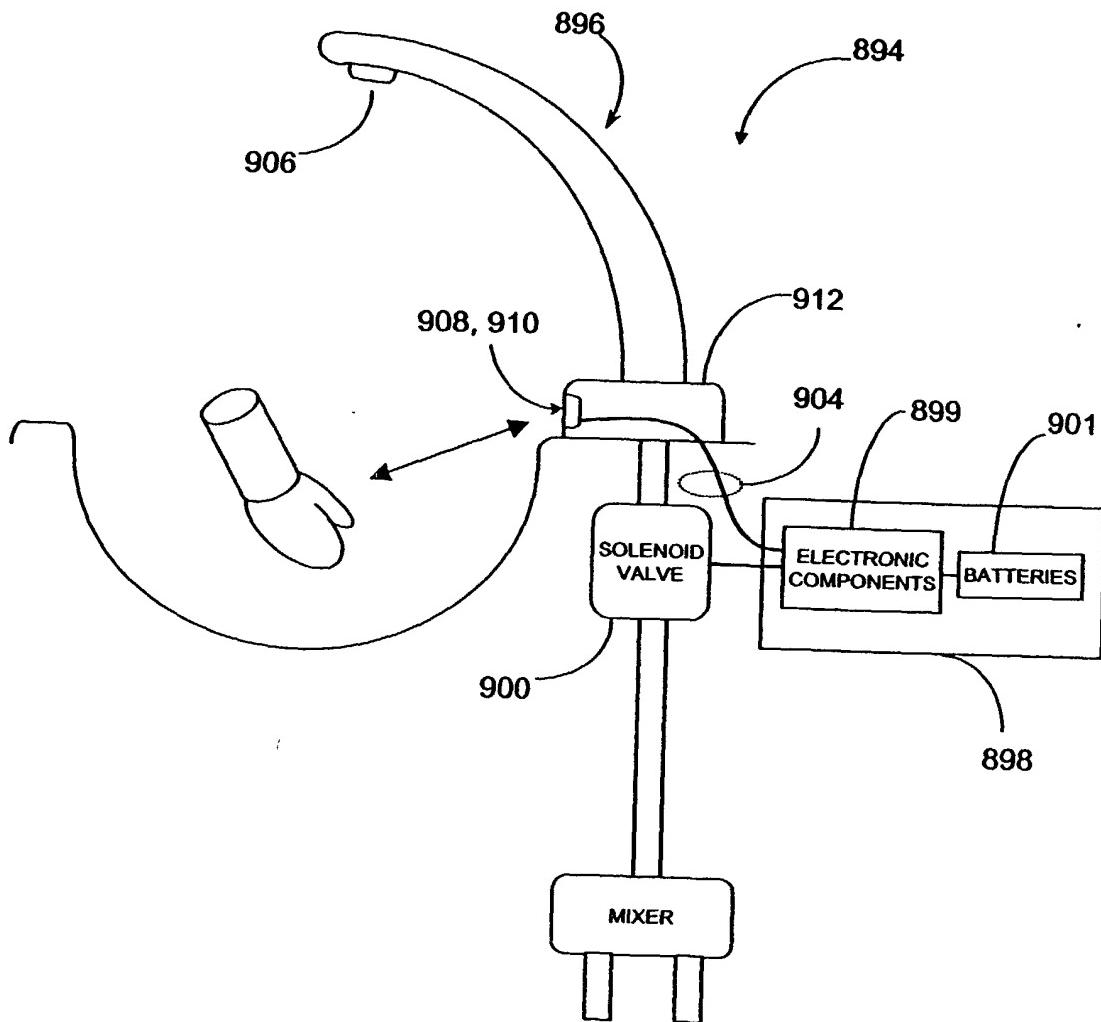
U.S. 10/035,370

Inventor: Patterson, et al.

De Te Kim Phone: (256) 535-1100

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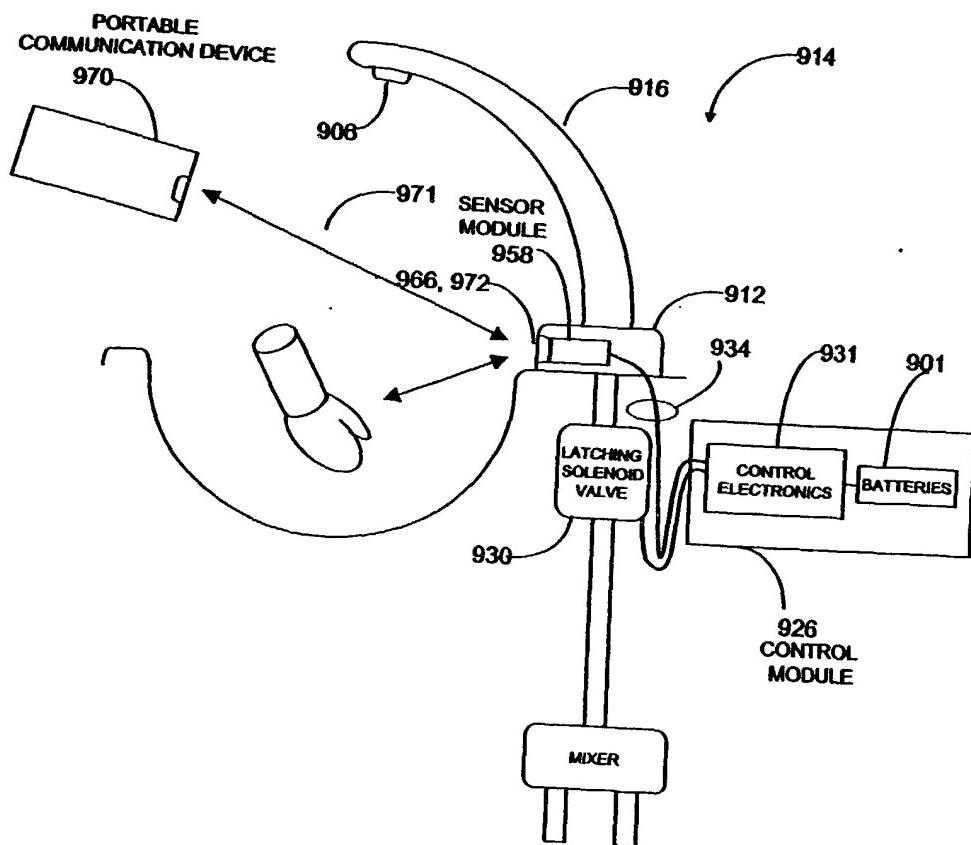
**FIG. 23
PRIOR ART**



Attorney Docket No.: 00-0895.26/US
System and Method for Wireless Data Exchange Between An Appliance and a Handheld Device
10/035,370
Inventors: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

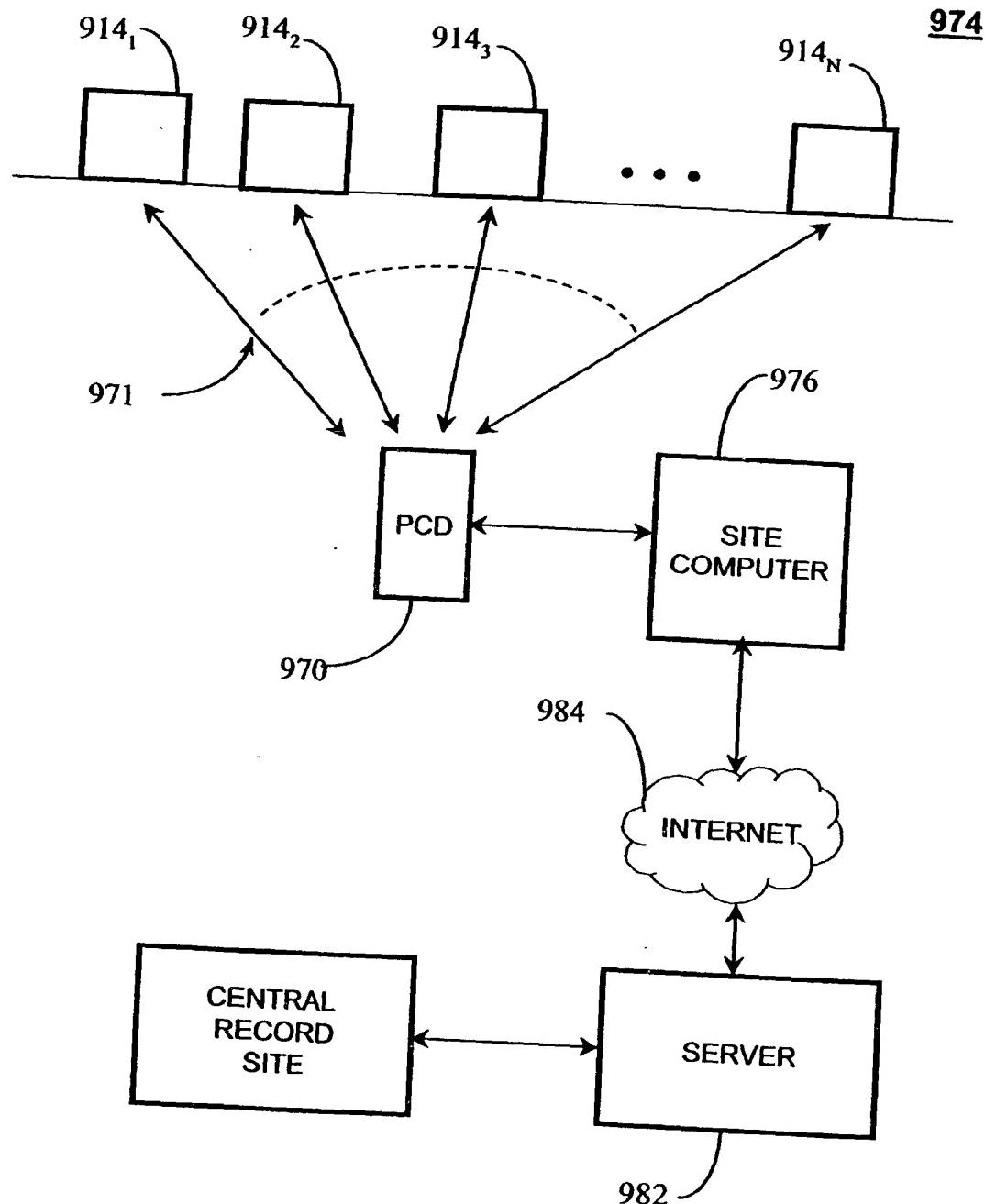
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FIG. 24



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FIG. 25



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FIG. 26a

Synapse Commander

Get Faucet Data

Adjust Faucet

Scan For Problems

Information

Troubleshoot

Help

988

FIG. 26b

Information

Review & Modify Your Data

Reference Guide

Field Replacement Parts

Accessories

Contact Synapse

Contact Chicago Faucets

Help

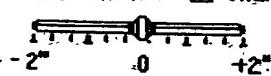
OK

989

FIG. 26c

Adjust

Range Short Far
 Normal Maximum



Mode Normal Metered
 Scrub Water Saver



Help **Set** **Other** **OK**

FIG. 26d

Get Status - Palm Pilot/Faucet

Serial # 00000000

Overall Status Low Battery

Power Status Dead

Power Settings	Usage	Location	Misc
----------------	-------	----------	------

Unloaded Volts	0. volts
----------------	----------

Loaded Volts	0. volts
--------------	----------

Time In Use	0 hours
-------------	---------

Replace Battery Date	1/20/03
----------------------	---------

Help **Note** **Next** **OK**

FIG. 26e

Field Replacement Parts Galileo

Mechanical Parts

Low Spout	570-001KJKCP
Gooseneck Spout	GN2AH8JKCP
Gooseneck Flange	170-202KJKCP
1" Coverplate	570-003KJKCP
8" Coverplate	570-008KJKCP
4" Coverplate/Side-mix	550-018KJKCP
8" Coverplate/Side-mix	570-135KJKCP

Electronics **Miscellaneous**
Mechanical **Accessories** **OK**

FIG. 26f

Reference Guide

MODE DEFINITIONS

NORMAL-Unit turns off 1.5 seconds after hands are removed.

METERED-Unit stays on for 10 seconds and then turns off.

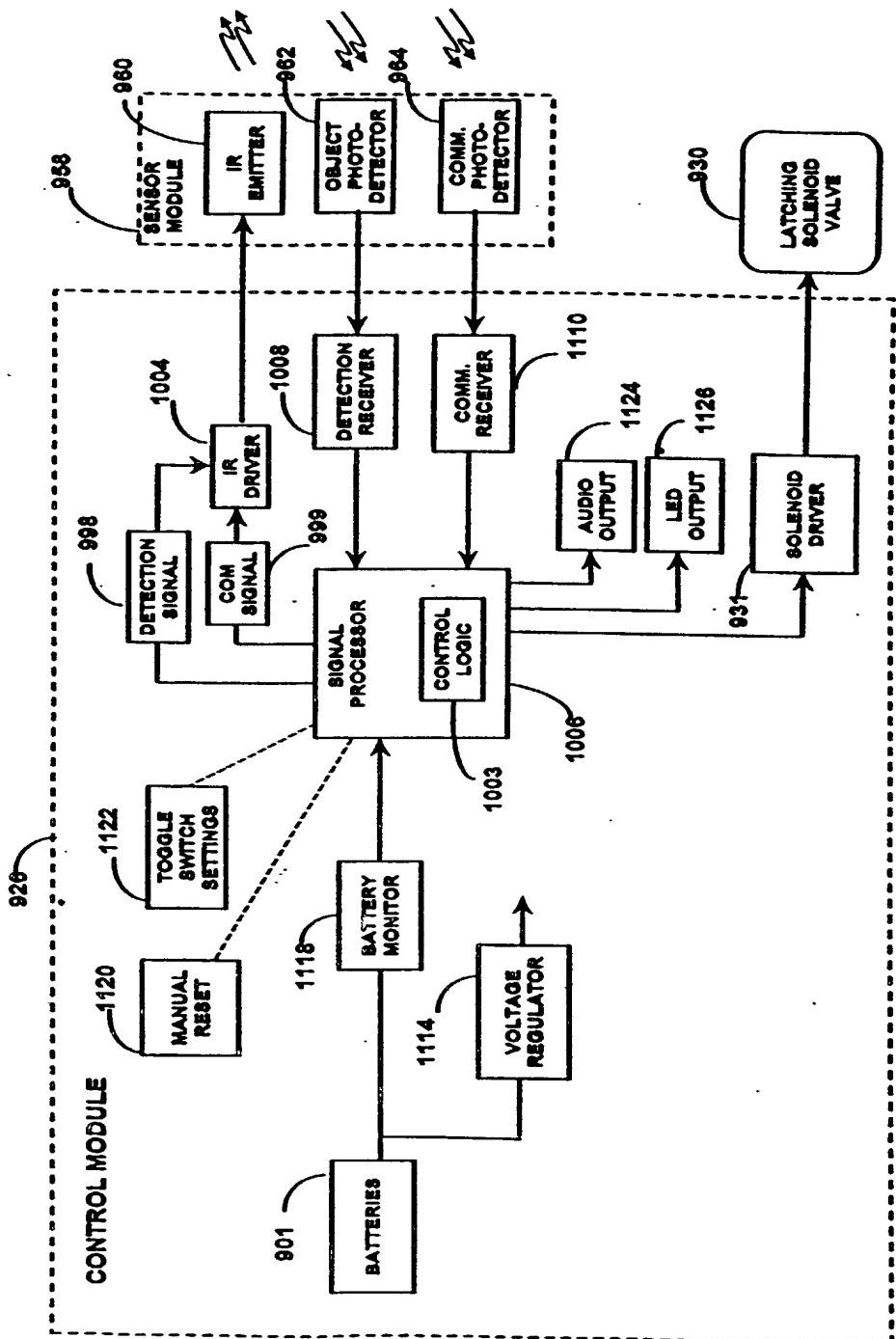
SCRUB-Unit stays on for 60 seconds after removing hands.

WATER SAVER-Unit stays on 5 seconds and then turns off.

Back **Next**
Common Field Problems **OK**

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FIG. 27



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FIG. 28

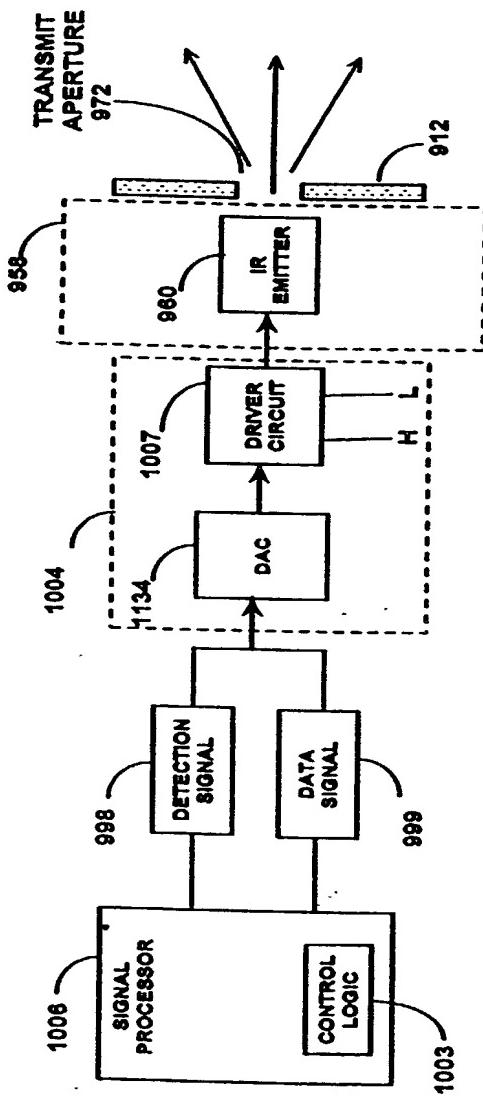
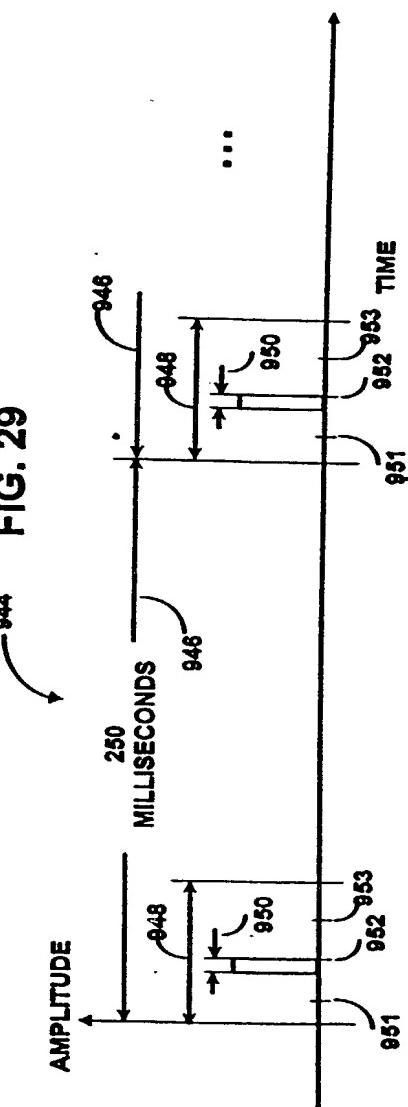


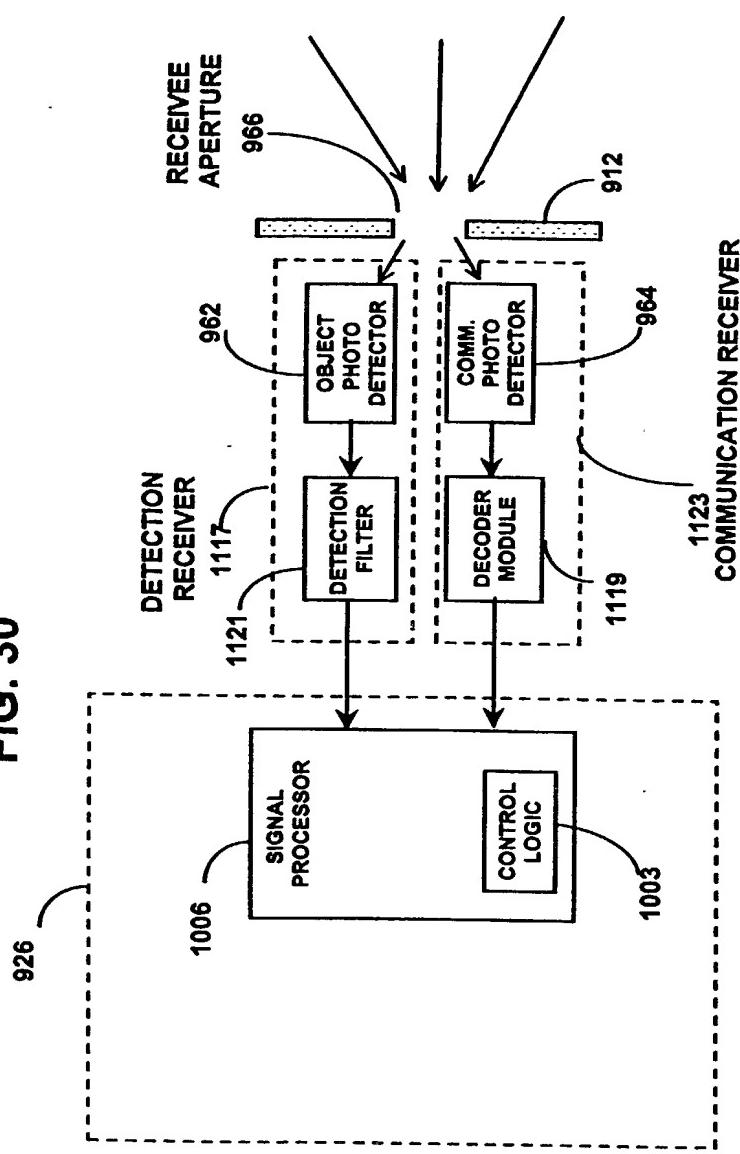
FIG. 29



Attorney Docket No : 00-0895.26/US
System and Method for Wireless Data Exchange Between An
Appliance and a Handheld Device
Serial No. 10/035,370
Inventor: Patterson, et al.
Do Te Kim Phone: (256) 535-1100

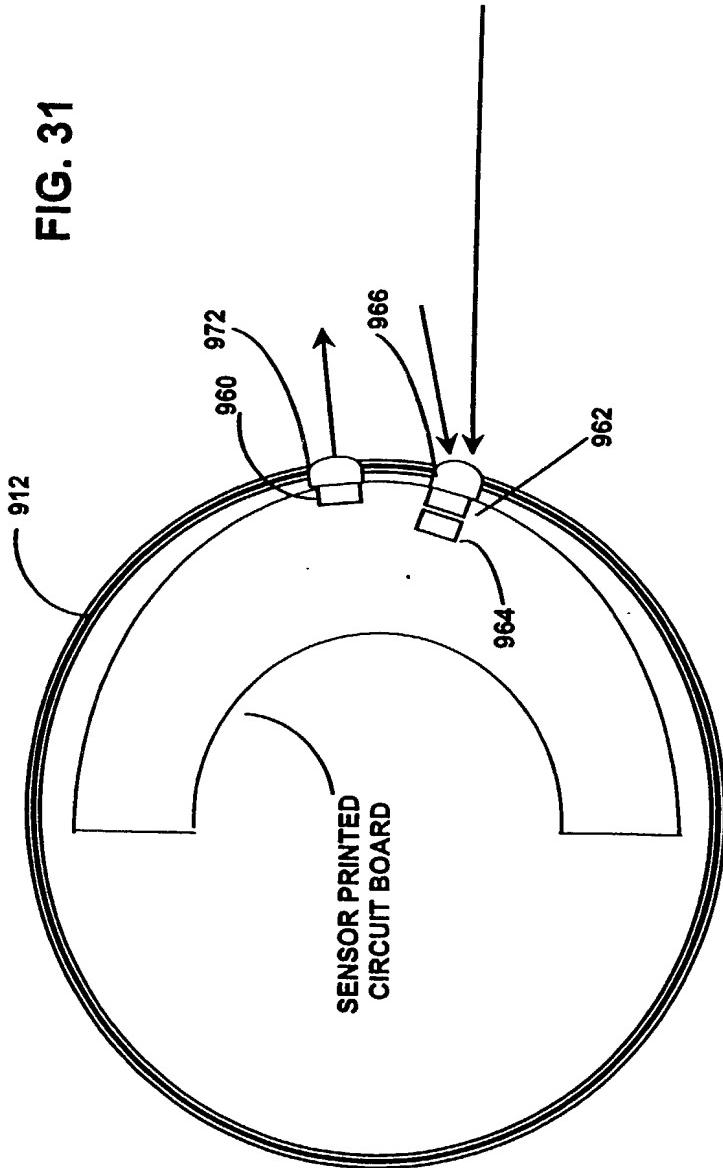
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FIG. 30



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FIG. 31



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FIG. 32a

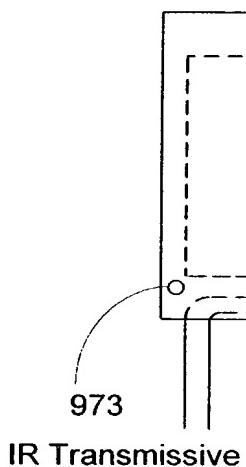


FIG. 32b

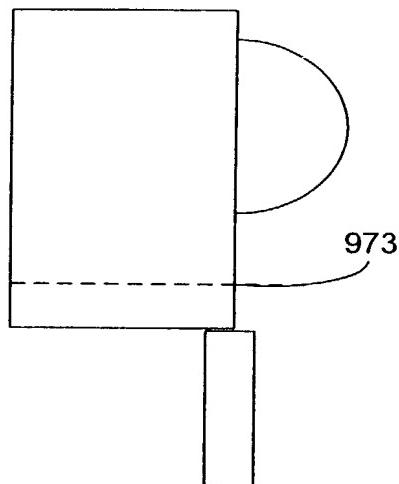


FIG. 32c

